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# COURSES

## COURSE DRAW LOGIC

Courses in this listing are active as of the Spring 2018 term. Course listings will be updated three times per year, to coincide with the priority enrollment time period for upcoming terms.

## COURSE DESIGNATIONS

Below you will find a short description of items included in course listings and course bubbles. For further information regarding course designations, consult your advisor or view the Requirements for Undergraduate Study (<http://guide.wisc.edu/undergraduate/#requirementsforundergraduatetext>). The mortarboard symbol (#) appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

Gen Ed	<p>Communication Part A: a course in communication skills at the college level, developing student abilities in writing and public speaking, for both exposition and argumentation.</p> <p>Communication Part B: a course involving substantial instruction in the four modes of literacy (that is, speaking, reading, writing, and listening), with emphasis on speaking and writing, either in the conventions of specific fields or in more advanced courses in communication.</p> <p>Quantitative Reasoning Part A: a course which provide students with skills in mathematics, computer science, statistics or formal logic that are needed for dealing with quantitative information.</p> <p>Quantitative Reasoning Part B: a course which allow students to enhance their Quantitative Reasoning Proficiency in a more advanced setting, where they make significant use of quantitative tools in the context of other course material.</p>
Ethnic St	Counts toward Ethnic Studies requirement: a course intended to increase understanding of the culture and contributions of persistently marginalized racial or ethnic groups in the United States, and to equip students to respond constructively to issues connected with our pluralistic society and global community.

### Breadth

**Biological Science:** a course concerning the systematic study of the structure, function, growth, origin, evolution, distribution, and taxonomy of living organisms. Courses with this designation may meet Biological Science requirements or the broader Natural Science breadth requirements.

**Humanities:** courses which share the pursuit of understanding and communicating the exploration of the human experience, and the meaning of historical and cultural phenomena, whether through creative expression, reflection, or interpretation.

**Literature:** a course principally devoted to the reading and discussion of prose fiction, poetry, drama, and "belles lettres," and the interpretation of these works, rather than their application to other areas of study.

**Natural Science:** a course characterized by the systematic study of the natural and physical world, and with the use of abstraction and logical reasoning. Biological Science and Physical Science courses are subsets of the Natural Science curriculum.

**Physical Science:** a course involving the systematic study of objective information about the physical world, broadly defined, and include areas of study such as Astronomy, Biology, Chemistry, Physics, Materials Science, and Earth Science (atmospheric science, oceanography). Courses with this designation may meet Physical Science requirements or the broader Natural Science breadth requirements.

**Social Science:** a course which relies upon methods of data collection (either qualitative or quantitative), data analysis, or data interpretation that characterize factual, methodological, institutional, and theoretical inquiry into the systematic study of humans/groups and institutions/society.

Level	<p><b>Elementary:</b> a course associated with predominantly introductory material, are usually open to all students (including first year students).</p> <p><b>Intermediate and Advanced:</b> courses with sensible prerequisites to reflect a gradual mastery of material.</p>
L&S Credit	Counts as Liberal Arts and Science credit in L&S: a course which encourage students in one or more of the three "habits of the mind" of liberal arts education, as specified by the College of Letters and Science.

**Honors** Accelerated Honors (!): a course open to both honors and non-honors students. Accelerated Honors courses receive honors credit automatically in recognition of the amount and rigor of material covered in the course, often designed to combine two semesters of material into one semester. The enrollment system will automatically assign honors.

Honors Only Courses (H): a course reserved for students declared in an Honors program only, taught by a faculty member who is an expert in the subject-matter of the course. It is designed to challenge students to actively participate; hence, the course content is often shaped by student questions and interests. The enrollment system will automatically assign honors.

Honors Optional (%): a course open to both honors and non-honors students. The optional honors component of work is designed to facilitate in-depth, student-driven learning and enrich the student's experience. The student is responsible for formally declaring their intention to complete an honors project when enrolling.

**Grad 50%** Counts toward 50% graduate coursework requirement: a course used in the Graduate School's requirement that least 50% of credits applied toward the student's graduate program must be with courses designed for graduate work.

**Work** Workplace Experience Course: a course where workplace experience is linked to learning in an academic program. Courses must include intentional learning objectives related to the experience.

**Foreign Language** First-semester language course: a course in a language other than English for students with no prior experience in the language.

Second-semester language course: a course in a language other than English that requires a Level 1 course or equivalent as a prerequisite

Third-semester language course: a course in a language other than English that requires a Level 2 course or equivalent as a prerequisite.

Fourth-semester language course: a course in a language other than English that requires a Level 3 course or equivalent as a prerequisite.

## ACCOUNTING AND INFORMATION SYSTEMS (ACCT I S)

**ACCT I S 100 – INTRODUCTORY FINANCIAL ACCOUNTING**  
3 credits.

Examines generally accepted accounting principles for measurement and reporting of financial information in a balance sheet, income statement, and statement of cash flows; introduction to analysis and interpretation of financial accounting data for decision-making purposes. 5 or higher. Not open to 1st sem Fr. Cr is not given for both Acct IS 100 300

**Requisites:** A cumulative GPA of 2.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ACCT I S 211 – INTRODUCTORY MANAGERIAL ACCOUNTING**  
3 credits.

Managerial accounting concepts relevant for decision-making; use of accounting information for planning, decision-making, and control of business operations in various management and business environments.

**Requisites:** Must have completed Accounting 100.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ACCT I S 300 – ACCOUNTING PRINCIPLES**  
3 credits.

Introduction to accounting from a user's perspective. Covers both financial and managerial accounting. Accounting theory principles, presentation and interpretation of financial reports, financial statement analysis. Measurement, classification, planning and control of costs. Satisfaction of QRA. Credit is not given for both Acct IS 100 300

**Requisites:** Junior standing.

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ACCT I S 301 – FINANCIAL REPORTING I**  
3 credits.

Examines current and emerging financial accounting theory and techniques used to measure and report financial information to investors, creditors, and other external users. Emphasizes asset and income determination, preparation and interpretation of financial statements, and related disclosure requirements.

**Requisites:** Must have completed Accounting 100.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ACCT I S 302 – FINANCIAL REPORTING II**  
3 credits.

Examines current and emerging financial accounting theory and techniques used to measure and report financial information to investors, creditors, and other external users, including dilutive securities, investments, revenue recognition, income tax allocation, pensions, leases and accounting changes.

**Requisites:** So, Jr or Sr st; Acct IS 301

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ACCT I S 310 – COST MANAGEMENT SYSTEMS.**  
3 credits.

Design of actual and standard cost systems for reporting product costs in job costing, process costing, and activity costing production environments. Overhead allocation methods. Budgeting and profit planning procedures. Techniques for variance analysis and performance evaluation. Behavioral considerations in the design and use of cost accounting information systems.

**Requisites:** Acct IS 211

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ACCT I S/LAW 329 – TAXATION: CONCEPTS FOR BUSINESS AND PERSONAL PLANNING**

3 credits.

An introduction to the U.S. income taxation concepts with emphasis on business and personal planning strategies. Taxes are placed in a framework which considers all costs of doing business. Includes approaches and skills needed to prepare individual, corporate, and partnership income tax returns.

**Requisites:** Must have completed Accounting 100 or 300 or LAW 811**Repeatable for Credit:** No**Last Taught:** Fall 2017**ACCT I S 340 – ACCOUNTING SYSTEMS**

3 credits.

Principles and problems of system design; organization for accounting control, internal control procedures and internal reports. Developing control, security, and auditability into information system applications.

**Requisites:** Sophomore, Junior or Senior standing; Acct IS 211**Repeatable for Credit:** No**Last Taught:** Fall 2017**ACCT I S 365 – CONTEMPORARY TOPICS**

1-3 credits.

A course for the exploration of subject areas possibly to be introduced into the business curriculum.

**Requisites:** Prerequisite varies by topic**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ACCT I S 399 – READING AND RESEARCH-ACCOUNTING**

1-6 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**ACCT I S 406 – ADVANCED FINANCIAL REPORTING**

3 credits.

Theoretical, procedural, and practical issues associated with the preparation of financial statements of alternative reporting entities, including the accounting for mergers and acquisitions, consolidations, foreign operations, and complex financial instruments.

**Requisites:** Acct IS 302**Repeatable for Credit:** No**Last Taught:** Fall 2017**ACCT I S 600 – ACCOUNTANCY INTERNSHIP AND PRACTICE RESEARCH**

3-6 credits.

The internship program represents an opportunity for students to experience a professional accounting practice first hand and to integrate this experience with their formal education.

**Requisites:** Sr st; admitted MACC stdt; Acct IS 620 or 630; con reg in Acct IS 601**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** No**Last Taught:** Spring 2017**ACCT I S 601 – PROFESSIONAL PRACTICE ISSUES IN ACCOUNTING AND AUDITING**

3 credits.

Study of current accounting and audit issues within a case context. Students will be required to perform computerized research, analyze topical accounting and audit issues, and make case presentations. Intensive three week course to build on experiences developed during the internship program.

**Requisites:** Sr st; admitted MACC stdt; Acct IS 620 or 630; con reg in Acct IS 600**Repeatable for Credit:** No**Last Taught:** Spring 2017**ACCT I S 603 – FINANCIAL STATEMENT ANALYSIS**

3 credits.

Analysis and interpretation of financial statements, including profitability and ratio analysis, cash flow analysis, accounting-based equity valuation, market impact of accounting choices, earnings quality, earnings management, mergers and acquisitions, intangibles, accounting-based trading strategies, accounting and credit ratings, and international accounting.

**Requisites:** Acct I S 301**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ACCT I S 620 – FUNDAMENTALS OF TAXATION**

3 credits.

Application of federal tax provisions and administrative rules common to most taxpayers with introductions to rules specific to corporations, pass-through entities, and individuals. Concurrent registration in both Accounting 301 620 is allowed

**Requisites:** Must have completed Accounting 301.**Repeatable for Credit:** No**Last Taught:** Fall 2017**ACCT I S 621 – CORPORATE AND ADVANCED TAXATION**

3 credits.

Application of federal tax provisions and administrative rules pertaining to corporations and shareholders, including elective provisions for "S" corporations. Emphasis on tax planning and the consequences of corporate and shareholder decisions.

**Requisites:** ACCT I S 620**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ACCT I S 630 – AUDIT AND ASSURANCE SERVICES**

3 credits.

Evolution of assurance services; role of assurance services as part of corporate governance; professional standards and ethical concepts; evidence concepts and evaluation of evidence, business and information technology risk analysis, the audit risk model, assurance reports, and development of audit and assurance programs.

**Requisites:** Senior standing and ACCT I S 301**Repeatable for Credit:** No**Last Taught:** Fall 2017**ACCT I S 700 – FINANCIAL ACCOUNTING**

3 credits.

Measurement and reporting guidelines underlying preparation of general purpose financial statements; current measurement and reporting issues; analysis and interpretation of financial statement data for investment, lending, and related decisions.

**Requisites:** Grad st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ACCT I S 701 – FINANCIAL REPORTING I**

3 credits.

Examines current and emerging financial accounting theory and techniques used to measure and report financial information to investors, creditors, and other external users. Emphasizes asset and liability valuations and their relationships to income determination, preparation and interpretation of financial statements, and related disclosure requirements.

**Requisites:** Acct IS 700**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ACCT I S 702 – FINANCIAL REPORTING II**

3 credits.

Examines current and emerging financial accounting theory and techniques used to measure and report financial information to investors, creditors, and other external users, including dilutive securities, investments, revenue recognition, income tax allocation, pensions, leases and accounting changes.

**Requisites:** Acct IS 701**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ACCT I S 706 – ADVANCED FINANCIAL REPORTING**

3 credits.

Accounting principles related to formation, maintenance, expansion, contraction and liquidation of the business enterprise.

**Requisites:** Acct IS 701 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ACCT I S 710 – MANAGERIAL ACCOUNTING**

3 credits.

Interpretation and use of accounting data for management planning, decision making and control. Consideration of cost-volume-profit relationships, relevant costs, variable (direct) costing, activity-based costing, transfer pricing and performance evaluation of segments of the firm.

**Requisites:** Acct IS 700 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ACCT I S 711 – STRATEGIC COST MANAGEMENT**

2 credits.

Development and analysis of cost and other performance measurement information for managerial planning, control, and decision-making. Integration of information needs for various managerial functions.

**Requisites:** Acct IS 700**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**ACCT I S 722 – TAXATION OF PASS-THROUGH ENTITIES**

3 credits.

Analysis of federal tax provisions and administrative rules regarding pass-through entities, such as partnerships, S-corporations, and limited liability companies; including their application to entity formation and operation, property and ownership basis, distributions, and interest transfers.

**Requisites:** Acct IS 620**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ACCT I S 723 – FEDERAL ESTATE AND GIFT TAXATION**

3 credits.

A study of estate and gift transfer taxes; problems requiring investigation of concepts and theories of taxable gifts and estates; estate planning.

**Requisites:** Gen Bus 301 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2010

**ACCT I S 724 – RESEARCH AND ADMINISTRATIVE ISSUES IN TAXATION**  
3 credits.

Methodologies and tools for tax research; utilization of tax research tools; preparation of investigative reports; professional and interprofessional responsibilities; administrative procedures and techniques.

**Requisites:** Acct IS 620

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ACCT I S 725 – TAXATION OF CROSS-JURISDICTIONAL TRANSACTIONS**  
3 credits.

An introduction to international and multistate tax issues. Topics covered may include tax treaties, foreign tax credit provisions, Subpart F rules, multistate apportionment, nexus, sales tax, and use tax.

**Requisites:** Acct IS 620

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ACCT I S 726 – ADVANCED CORPORATE TAXATION**  
3 credits.

This course addresses the application of federal tax law to a variety of complex corporate tax topics and analysis on corporations and their shareholders. Primary legal sources of the code, regulations, and case law are applied to determine the tax treatment for advanced topics such as: 1) Tax and non-tax factors considered by buyers and sellers in both stock and asset acquisitions, 2) Taxable asset acquisitions, 3) Consolidations, 4) Divestitures and divisive D reorganizations, and 5) Codification of the economic substance doctrine. The emphasis of the class in regard to these topics is on tax planning and the consequences of corporate and shareholder decisions.

**Requisites:** ACCT I S 620 and ACCT I S 621

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ACCT I S 730 – ADVANCED ASSURANCE SERVICES**  
3 credits.

Operational and information systems auditing; risk analysis, electronic evidence; computerized audit and assurance techniques; internal auditing and outsourcing; analytical techniques; auditor judgment; control concepts, business process risk analysis; reporting on controls and business processes; expanding technology and assurance.

**Requisites:** ACCT I S 630 and (ACCT I S 340 or INFO SYS 320)

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ACCT I S 765 – CONTEMPORARY TOPICS**  
1-4 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ACCT I S 770 – SEMINAR IN FINANCIAL REPORTING THEORY**  
3 credits.

Intensive study and critical examination of accounting and financial reporting theories, concepts and standards; evaluations of the pronouncements of accounting standard-setters and financial reporting regulators.

**Requisites:** Acct IS 302 or 702

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ACCT I S 771 – SEMINAR IN STRATEGIC COST MANAGEMENT AND PERFORMANCE MEASUREMENT**  
3 credits.

Development and analysis of accounting data for managerial planning, control, decision-making, and costing. Integration of financial and non-financial information needs for various managerial functions.

**Requisites:** Graduate standing and Acct IS 710 or equivalent

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ACCT I S 772 – SEMINAR IN CURRENT TAXATION TOPICS**  
3 credits.

Readings and cases in taxation; analysis and integration of related tax provisions and taxpayer impact.

**Requisites:** Cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ACCT I S/E P D/GEN BUS 781 – FINANCIAL AND BUSINESS ACUMEN**  
1 credit.

This course is designed with a keen awareness for the needs of the non-financial student or professional. For this class, no previous financial training is required. The intent is to equip you with the essential concepts used to develop financial literacy. Content will cover basic financial terms and reports, analytical tools to help interpret financial data and using financial data in budgets and forecasts. This course will not apply toward fulfilling the MBA degree requirements.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No



**ACCT I S 799 – READING AND RESEARCH-ACCOUNTING**

1-6 credits.

Individual work suited to the needs of graduate students may be arranged both during regular sessions and the intersession periods.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2009**ACCT I S 971 – SEMINAR IN ACCOUNTING RESEARCH**

3 credits.

Methods of inquiry and research methodology in accounting. Analysis of current research, with the emphasis on empirical research in accounting.

**Requisites:** PhD cand in accounting or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ACCT I S 990 – ACCOUNTING INDEPENDENT RESEARCH PHD THESIS**

1-12 credits.

Individual work to complete dissertation requirement of Ph.D. program.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ACCT I S 999 – READING AND RESEARCH-ACCOUNTING PHD**

1-6 credits.

Individual work suited to the needs of Ph.D. students may be arranged both during regular sessions and during the intersession periods.

**Requisites:** PhD st cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ACTUARIAL SCIENCE (ACT SCI)****ACT SCI 300 – ACTUARIAL SCIENCE METHODS I**

1 credit.

Develop a knowledge of fundamental mathematical tools for quantitatively assessing risk. Emphasize the applications of these tools to problems encountered in actuarial science.

**Requisites:** MATH/STAT/MATH 309, STAT 311 or MATH/STAT/MATH 431 or concurrent registration; not open to graduate students**Repeatable for Credit:** Yes, for 2 number of completions**Last Taught:** Spring 2017**ACT SCI 301 – ACTUARIAL SCIENCE METHODS II**

1 credit.

Develop a knowledge of mathematical tools for quantitatively assessing financial risk. Emphasize the applications to problems encountered in actuarial science.

**Requisites:** Act Sci 303 or con reg; not open to Grad stdts**Repeatable for Credit:** No**Last Taught:** Fall 2017**ACT SCI/MATH 303 – THEORY OF INTEREST AND LIFE INSURANCE**

3 credits.

Application of calculus to compound interest and insurance functions; interest compounded discretely and continuously; force of interest function; annuities payable discretely and continuously; bonds and yield rates; life tables, life annuities, single and annual premiums for insurance and annuities; reserves.

**Requisites:** MATH 222 or 276**Course Designation:** Breadth - Natural Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ACT SCI 365 – CONTEMPORARY TOPICS**

1-3 credits.

A course for the exploration of subject areas possibly to be introduced into the business curriculum.

**Requisites:** Varies by topic**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ACT SCI 650 – ACTUARIAL MATHEMATICS I**

3 credits.

Advanced problems in the mathematical theory of life contingencies; force of mortality, laws of mortality; premiums and reserves for insurance and annuities based on a single life.

**Requisites:** ACT SCI/MATH/ACT SCI 303 and (MATH/STAT/MATH 309, STAT 311 or MATH/STAT/MATH 431)**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ACT SCI 651 – ACTUARIAL MATHEMATICS II**

3 credits.

Continuation of Act Sci 650. Joint life probabilities, annuities and insurances; multiple-decrement theory; pension fund mathematics.

**Requisites:** Act Sci 650**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**ACT SCI 652 – LOSS MODELS I**

3 credits.

Definition and selection of probability distributions appropriate for insurance data that are heavily tailed and skewed.

**Requisites:** STAT 311, MATH/STAT/MATH 309, or MATH/STAT/MATH 431

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ACT SCI 653 – LOSS MODELS II**

3 credits.

Estimation of parameters of probability distributions appropriate for insurance data that are heavy tailed and skewed; assessment of credibility of data for ratemaking.

**Requisites:** ACT SCI 652 and STAT/MATH 310 or STAT 312

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ACT SCI 654 – REGRESSION AND TIME SERIES FOR ACTUARIES**

3 credits.

Linear regression and correlation; generalized linear regression models; introduction to time series; time series model building and forecasting with focus on data of interest to actuaries.

**Requisites:** MATH/STAT/MATH 310 or STAT 312

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ACT SCI 655 – HEALTH ANALYTICS**

3 credits.

The overall goal of this course is to provide students with an introduction to the broad area of health, integrating how researchers from multiple perspectives have investigated various aspects of health, along with the hands-on practice of learning and using statistical tools to analyze these topics.

**Requisites:** Junior standing and (GEN BUS 306, MATH/STAT/MATH 310 or 312)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ACT SCI 765 – CONTEMPORARY TOPICS**

1-3 credits.

A course for the exploration of subject areas possibly to be introduced into the business curriculum.

**Requisites:** Varies by topic

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

## AFRICAN LANGUAGES AND LITERATURE (AFRICAN)

**AFRICAN 100 – INTRODUCTION TO AFRICAN CULTURAL EXPRESSION**

3 credits.

An introduction to current research in African cultural studies, ranging from various literary genres and uses of discourse; to diverse media including screen media, music, cartoons, and journalism; and to other forms of popular expression like soccer and drama. Through an introduction to these forms, students will also gain an overview of the diverse methods used by scholars in this field, such as textual analysis, film criticism, ethnomusicology, discourse analysis, and ethnography; and to the cultural diversity of Africa and its diasporic cultures.

**Requisites:** None

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AFRICAN/HISTORY 129 – AFRICA ON THE GLOBAL STAGE**

3-4 credits.

Explores the interplay between Africa and the World from the 19th century to the present, covering subjects such as the slave- trade, repatriation, Africanizing of culture in the Americas and Europe, the spread and revival of world religions, colonialism, global capitalism, the rise of global popular culture such as pop music and video films, environmental concerns and global epidemics.

**Requisites:** None

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**AFRICAN 201 – INTRODUCTION TO AFRICAN LITERATURE**

3 credits.

Survey of African literary traditions and introduction to literary analysis.

**Requisites:** None

**Course Designation:** Gen Ed - Communication Part B

Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**AFRICAN/FOLKLORE 210 – THE AFRICAN STORYTELLER**

3 credits.

The oral tradition and the written word; the composition of stories, relationship between performer and audience, and transmission of tradition in various African societies.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AFRICAN 211 – THE AFRICAN AUTOBIOGRAPHY**

3 credits.

The importance of autobiography in depicting social change in the lives of Africans.

**Requisites:** So st or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2012**AFRICAN 212 – INTRODUCTION TO AFRICAN POPULAR CULTURE**

3-4 credits.

This course will use aspects of popular culture (such as popular literature, music, television, news media, movies, etc.) to introduce students to the African continent and its cultures, people, and languages.

Students will be exposed to a variety of texts from different regions on the continent, learning about differences and similarities across the continent at the level of aesthetics and context.

**Requisites:** None**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**AFRICAN/AFROAMER 220 – HIPHOP, YOUTH CULTURE, AND POLITICS IN SENEGAL**

3 credits.

This course explores how HipHop, a quintessential manifestation of African American culture, is adopted and adapted by African youth to fight for social justice and democracy in their local contexts, while at the same time constructing a diasporic African sensibility and "cultural citizenship" that transcends borders and oceans. Beginning with the history, culture, and politics of HipHop in the U.S., we compare and contrast HipHop's development in Africa with specific attention to Senegal. Students will develop a familiarity with youth culture and politics in Senegal and study the ongoing process of cross-cultural flows and hybridity.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**AFRICAN 230 – INTRODUCTION TO YORUBA LIFE AND CULTURE**

3 credits.

Introduction to some aspects of the life and culture of Yoruba-speaking people of West Africa, Cuba, Brazil, and Haiti, including the importance of Yoruba culture in the Americas.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**AFRICAN 231 – INTRODUCTION TO ARABIC LITERARY CULTURE**

3 credits.

Survey course on Arabic cultural production. Through the course, students will develop a historic and critical understanding of Arabic literary traditions, as well as related musical and visual arts, up to the twenty-first century.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**AFRICAN 232 – INTRODUCTION TO SWAHILI CULTURES**

3 credits.

A multi-disciplinary perspective on the identities, history, language, literature, and artistic heritage of Swahili speakers.

**Requisites:** Open to first year students**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**AFRICAN/AFROAMER 233 – GLOBAL HIPHOP AND SOCIAL JUSTICE**

3 credits.

Can HipHop culture help produce a more just world? If so, what theory and praxis best advance this aim? These are the questions that drive this conceptual course. Our critical interrogation of the relationship between HipHop and social justice considers the culture from its U.S. Black Power era underpinnings to its disparate contemporary "glocal" manifestations. We begin by asking what is "HipHop," what is "social justice," and what is their relationship, and proceed to consider how HipHop can be an effective force for social justice and what obstacles mitigate against this potential. These discussions will develop familiarity with important concepts in Black studies and social theory such as race and colonialism, imperialism and hegemony, structure and agency, identity and strategic essentialism. Weekly readings will typically pair writings specifically on HipHop with theory from across the humanities and social sciences including philosophy, sociology, cultural studies, and political economy. We will endeavor to consider the race/class/gender dimensions of our weekly topics. Students will acquire a broader familiarity with HipHop activism, and develop new conceptual tools and critical thinking skills.

**Requisites:** None**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**AFRICAN/FOLKLORE 270 – THE HERO AND TRICKSTER IN AFRICAN ORAL TRADITIONS**

3 credits.

Two major characters in African oral tradition as treated in narrative, epic and heroic poetry.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**AFRICAN/AFROAMER/ANTHRO/GEOG/HISTORY/POLI SCI/SOC 277 – AFRICA: AN INTRODUCTORY SURVEY**

4 credits.

African society and culture, polity and economy in multidisciplinary perspectives from prehistory and ancient kingdoms through the colonial period to contemporary developments, including modern nationalism, economic development and changing social structure.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**AFRICAN/AFROAMER/HISTORY/POLI SCI 297 – AFRICAN AND AFRICAN-AMERICAN LINKAGES: AN INTRODUCTION**

4 credits.

Analysis of retention of African elements in African-American oral, written, and material culture. Social, cultural, and political issues regarding race, self-definition, and self-determination in both Africa and North America will be examined.

**Requisites:** None**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**AFRICAN 300 – AFRICAN LITERATURE IN TRANSLATION**

3 credits.

Introduction to the literature, oral or written, of a coherent cultural area of Africa, for those for whom texts in the original language are not accessible. Not recommended for grad stdts

**Requisites:** Open to Fr with cons inst.**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**AFRICAN 301 – INTRODUCTION TO AFRICAN LINGUISTICS**

3 credits.

African languages, including typology, comparative studies, sociolinguistic factors, and the relation of language to literature.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2010**AFRICAN 303 – AFRICAN LITERATURE AND VISUAL CULTURE**

3 credits.

An introduction to literature and visual culture of Africa in various periods and places; specific topics will vary.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**AFRICAN/LCA LANG 321 – FIRST SEMESTER ARABIC**

4-5 credits.

An important Afro-Asiatic language; description, drills, reading, speaking.

Open to Fr

**Requisites:** 4 cr for Grads, 5 cr for Undergrads (4 cr only Summer).**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**AFRICAN/LCA LANG 322 – SECOND SEMESTER ARABIC**

4-5 credits.

Continuation of 321. 4 credits for Grads, 5 credits for Undergrads (4 cr only Summer). Open to Freshmen

**Requisites:** AFRICAN/LCA LANG 321 or consent of instructor.**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**AFRICAN/LCA LANG 323 – THIRD SEMESTER ARABIC**

4 credits.

Advanced grammar and conversational practice, reading contemporary Arabic literature and other writings.

**Requisites:** AFRICAN/LCA LANG 322 or cons inst**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**AFRICAN/LCA LANG 324 – FOURTH SEMESTER ARABIC**

4 credits.

Continuation of 323.

**Requisites:** AFRICAN/LCA LANG 323 or consent of instructor

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**AFRICAN 325 – COLLOQUIAL ARABIC**

2 credits.

**Requisites:** AFRICAN/LCA LANG 321 322 or equiv

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**AFRICAN 326 – COLLOQUIAL ARABIC**

2 credits.

**Requisites:** AFRICAN 325

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**AFRICAN/LCA LANG 327 – ELEMENTARY SUMMER IMMERSION ARABIC**

8 credits.

Elementary level Arabic language taught in an 8-week residential summer language immersion format. Open only to students who have been admitted separately to the summer Arabic immersion program.

**Requisites:** Students must be admitted to the summer Arabic immersion program in order to enroll

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**AFRICAN 329 – FIFTH SEMESTER ARABIC**

3 credits.

For advanced learners of Modern Standard Arabic; emphasis on proficiency through speaking, listening, reading, and writing, and on communication in cultural context.

**Requisites:** AFRICAN/LCA LANG 324

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**AFRICAN 330 – SIXTH SEMESTER ARABIC**

3 credits.

For advanced learners of Modern Standard Arabic; emphasis on proficiency through speaking, listening, reading, and writing, and on communication in cultural context.

**Requisites:** AFRICAN 329

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**AFRICAN 331 – FIRST SEMESTER SWAHILI**

5 credits.

For beginning learners of Standard Swahili; emphasis on proficiency through speaking, listening, reading, and writing, and on communication in cultural context.

**Requisites:** None

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AFRICAN 332 – SECOND SEMESTER SWAHILI**

4-5 credits.

Continuation of 331. 4 credit for Grads, 5 credit for Undergrads (4 cr only Summer). Open to Freshmen

**Requisites:** AFRICAN 331 or consent of instructor.

**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**AFRICAN 333 – THIRD SEMESTER SWAHILI**

4 credits.

Continuation of AFRICAN 332. Four-skills approach (speaking, listening, writing, reading) centered around authentic texts, recordings, and images. Grammar review, concerted vocabulary expansion, and intensive practice.

**Requisites:** AFRICAN 332

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AFRICAN 334 – FOURTH SEMESTER SWAHILI**

4 credits.

Continuation of 333.

**Requisites:** AFRICAN 333 or cons inst

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**AFRICAN 335 – FIRST SEMESTER-A LANGUAGE OF SOUTHERN AFRICA**

5 credits.

For beginning learners of a Southern African language; emphasis on proficiency through speaking, listening, reading, and writing, and on communication in cultural context.

**Requisites:** None

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016



**AFRICAN 336 – SECOND SEMESTER-A LANGUAGE OF SOUTHERN AFRICA**

4-5 credits.

Continuation of 335. 4 cr for Grads, 4 cr for Undergrads (4 cr only Summer). Open to Fr

**Requisites:** AFRICAN 335 or cons inst.

**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**AFRICAN 337 – THIRD SEMESTER-A LANGUAGE OF SOUTHERN AFRICA**  
4 credits.

Continuation of 336; More advanced speaking knowledge and grammatical analysis. Structure, reading, drills.

**Requisites:** AFRICAN 336 or cons inst

**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2014

**AFRICAN 338 – FOURTH SEMESTER-A LANGUAGE OF SOUTHERN AFRICA**

4 credits.

Continuation of 337.

**Requisites:** AFRICAN 337 or cons inst

**Course Designation:** Frgn Lang - 4th semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**AFRICAN 353 – THIRD SEMESTER XHOSA**

4 credits.

More advanced texts and emphasis on structural analysis and conversational practice.

**Requisites:** African 352 or cons inst

**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**AFRICAN 354 – FOURTH SEMESTER XHOSA**

4 credits.

Continuation of 353.

**Requisites:** AFRICAN 353 or cons inst

**Course Designation:** Frgn Lang - 4th semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**AFRICAN 361 – FIRST SEMESTER HAUSA**

5 credits.

For beginning learners of Hausa; emphasis on proficiency through speaking, listening, reading, and writing, and on communication in cultural context.

**Requisites:** None

**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**AFRICAN 362 – SECOND SEMESTER HAUSA**

4-5 credits.

Continuation of 361. 4 cr for Grads, 5 cr for Undergrads (4 cr only Summer). Open to Fr

**Requisites:** AFRICAN 361 or cons inst.

**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**AFRICAN/LCA/RELIG ST 370 – ISLAM: RELIGION AND CULTURE**

3-4 credits.

The emergence and development of Islam; schism; theology; asceticism; speculative and popular mysticism; literatures in diverse Islamic languages.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AFRICAN 371 – FIRST SEMESTER YORUBA**

5 credits.

For beginning learners of Standard Yoruba; emphasis on proficiency through speaking, listening, reading, and writing, and on communication in cultural context.

**Requisites:** None

**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AFRICAN 372 – SECOND SEMESTER YORUBA**

5 credits.

Continuation of AFRICAN 371. For beginning learners of standard Yoruba; emphasis on proficiency through speaking, listening, reading, and writing, and on communication in cultural context.

**Requisites:** AFRICAN 371

**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**AFRICAN 373 – THIRD SEMESTER YORUBA**

4 credits.

Advanced grammar and conversational practice. Reading contemporary Yoruba literature and other writings.

**Requisites:** AFRICAN 372 or cons inst

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AFRICAN 374 – FOURTH SEMESTER YORUBA**

4 credits.

Continuation of AFRICAN 373, intended to continue to develop and refine competence and performance in linguistic skills that were developed in the first three semesters of Yoruba courses.

**Requisites:** AFRICAN 373

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**AFRICAN 391 – FIRST SEMESTER-A LANGUAGE OF WEST AFRICA**

4-5 credits.

e.g. Ewe, Igbo, Mende, Twi, Yoruba: Speaking knowledge, description, structure, drills. Open to Fr

**Requisites:** 4 cr for Grads, 5 cr for Undergrads (4 cr only Summer).

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**AFRICAN 392 – SECOND SEMESTER-A LANGUAGE OF WEST AFRICA**

4-5 credits.

Continuation of 391. 4 cr for Grads, 5 cr for Undergrads (4 cr only Summer). Open to Fr

**Requisites:** AFRICAN 391 or cons inst.

**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**AFRICAN 393 – THIRD SEMESTER-A LANGUAGE OF WEST AFRICA**

4 credits.

Continuation of 391 and 392.

**Requisites:** AFRICAN 392 or cons inst

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2012

**AFRICAN 394 – FOURTH SEMESTER-A LANGUAGE OF WEST AFRICA**

4 credits.

Continuation of 393.

**Requisites:** AFRICAN 393 or cons inst

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2012

**AFRICAN 399 – DIRECTED STUDY OF AN AFRICAN LANGUAGE**

3 credits.

Directed language study for students experienced in language self instruction. The instructor will continue to consult with the student and monitor progress.

**Requisites:** African 302 cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**AFRICAN 402 – THEORY OF AFRICAN LITERATURE**

3-4 credits.

Approaches to the analysis of African oral narrative performances, heroic poetry, epic, and the genres of written literature: Aesthetic, symbolic, and structural analysis and their interrelationships.

**Requisites:** AFRICAN 201 or 210 or 211, or Grad st, or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**AFRICAN 403 – THEORIES OF AFRICAN CULTURAL STUDIES**

3 credits.

This course is a study of the many ways of understanding the entire spectrum of culture and cultural production, circulation, consumption, and meaning making in Africa. It foregrounds material and imaginative cultural forms and practices—their origins, languages, contents, forms, functions, genres, audiences—as well as how these have been conceived and theorized by practitioners and scholars in the context of Africa and the world. The course will also examine the uses to which particular meanings of culture and its forms are put, by whom, and to what purpose, and how meanings are fought over, reshaped, and reconstituted, and under what conditions those are or can be possible. This is what “theory of African cultural studies” means in its most robust and imaginative senses. We will survey the entrenched modes of both conceptual and critical apprehension of the cultural forms and practices (from Negritude to postcolonialism and postmodernism), explore their methods of reading, raise the issue of their linkages to sources in Euro-America, and assess the extent to which the unique concerns of the biography of culture in Africa (expressed by its creators and scholars) have tried to tame and refashion what are now globally shared critical tools of cultural reading.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**AFRICAN 405 – TOPICS IN AFRICAN CULTURAL STUDIES**

3 credits.

This course examines various mediated cultural forms such as broadcasting, news, performance, music, film, or social media created and used and across regions and countries in Africa, addressing issues such as cultural identity, nation building, constraints on expression, access, and reception, and the interaction of global and African cultural forms.

**Requisites:** AFRICAN 201, 210, 211, 212, or 277.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**AFRICAN 406 – TOPICS IN AFRICAN LITERATURE**

3 credits.

Provides a conceptual focus for the study of various forms of literature from around the African world. Literary forms studied may include novels, drama, poetry, short stories, cinema, and more. Depending on the conceptual focus, texts from a particular region, period, or language may be stressed, or they will coalesce around certain themes, such as modernity, cultural identity, nation building, ideology, globalization, and more.

**Requisites:** Junior standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**AFRICAN 407 – TOPICS IN AFRICAN LANGUAGES**

3 credits.

Topics in African languages, especially sociocultural linguistics and critical applied linguistics in Africa.

**Requisites:** Must have graduate standing or have taken AFRICAN 201 or 301.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**AFRICAN 409 – TOPICS IN US AND GLOBAL BLACK MUSIC STUDIES**

3 credits.

This course will introduce students to the phenomenon of “musical blackness” as a US-based, transnational cultural form and practice. In each class (topics will vary), students will learn about how US-based, racially specified black musical forms, together with global forms also identified as “black,” were constituted as part of the legacies of European colonial encounter and US imperial expansion; the categories of “traditional” music and popular style took shape and have been experienced as something part and parcel of this historical process. By giving close consideration to genre, style, and performance practice, the course will help students to understand the many ways in which musical sound and social/political ideas are inextricably linked.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**AFRICAN/FOLKLORE 411 – AFRICAN POETRY**

3-4 credits.

Analysis of oral and written poetry from various African cultures.

**Requisites:** Jr st**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2008**AFRICAN 412 – CONTEMPORARY AFRICAN FICTION**

3-4 credits.

A critical study of the major works.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016

**AFRICAN/AFROAMER 413 – CONTEMPORARY AFRICAN AND CARIBBEAN DRAMA**

3-4 credits.

A critical study of the major works.

**Requisites:** Junior standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**AFRICAN/LCA LANG 427 – INTERMEDIATE SUMMER IMMERSION ARABIC**

8 credits.

Intermediate level Arabic language taught in an 8-week residential summer language immersion format. Open only to students who have been admitted separately to the summer Arabic immersion program. Students must be admitted to the summer Arabic immersion program in order to enroll

**Requisites:** AFRICAN/LCA LANG 322, or AFRICAN/LCA LANG 327, or equivalent (two semesters of Arabic language).**Course Designation:** Frgn Lang - 4th semester language course  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**AFRICAN 435 – ADVANCED STUDIES IN SWAHILI LANGUAGE-GRAMMAR**

3 credits.

Reading, conversation and composition beyond the fourth semester level with emphasis on linguistic structure and the grammatical analysis of texts appropriate to the level of the student.

**Requisites:** AFRICAN 334 or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**AFRICAN 436 – ADVANCED STUDIES IN SWAHILI LANGUAGE-READINGS**

3 credits.

Reading, conversation and composition beyond the fourth semester level with emphasis on the literary tradition of the language and concentration on texts appropriate to the level of the student.

**Requisites:** AFRICAN 435 or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**AFRICAN/FRENCH 440 – AFRICAN/FRANCOPHONE FILM**

3 credits.

Studies the construction of narratives in cinema and literature; teaches to analyze and write about cinema; explores links between cinema and national or regional politics and ideology; examines spectatorship in relation to questions of identity formation.

**Requisites:** FRENCH 271**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2010**AFRICAN/LCA LANG 445 – READINGS IN ADVANCED ARABIC TEXTS**

3 credits.

Selection from Quranic and post-Quranic Arabic texts to meet the needs of the students.

**Requisites:** Grad st and cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**AFRICAN/LCA LANG 446 – READINGS IN ADVANCED ARABIC TEXTS**

3 credits.

**Requisites:** Grad st or cons inst required**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**AFRICAN/PORTUG 451 – LUSOPHONE AFRICAN LITERATURE**

3 credits.

Chronological and thematic survey of major trends, authors, and works of Lusophone Africa since 1936.

**Requisites:** Portuguese 221 311/312 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**AFRICAN 453 – MODERN AFRICAN LITERATURE IN ENGLISH**

3-4 credits.

Chief emphasis on modern African poetry, novel, drama, and short story.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015

**AFRICAN/FOLKLORE 471 – ORAL TRADITIONS AND THE WRITTEN WORD**

3-4 credits.

Analyses and comparisons of African oral narrative-performances and African written literatures.

**Requisites:** AFRICAN/FOLKLORE 210, 402, or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**AFRICAN 475 – FIFTH SEMESTER YORUBA**

3 credits.

Advanced linguistic structures, literature and poetry. Introduction to Yoruba cultures in the works of Wole Soyinka.

**Requisites:** AFRICAN 374 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**AFRICAN 476 – SIXTH SEMESTER YORUBA**

3 credits.

More complex linguistic structure. Proverbs. Yoruba cultural background in the works of Wole Soyinka.

**Requisites:** AFRICAN 475 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**AFRICAN 491 – FIFTH SEMESTER, A LANGUAGE OF CENTRAL AFRICA**

3 credits.

Advanced linguistic structures and literature.

**Requisites:** African 318 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**AFRICAN 493 – FIFTH SEMESTER, A LANGUAGE OF SOUTHERN AFRICA**

3 credits.

Advanced linguistic structures and literature.

**Requisites:** AFRICAN 338 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2013

**AFRICAN 494 – SIXTH SEMESTER, A LANGUAGE OF SOUTHERN AFRICA**

3 credits.

Advanced linguistic structures and literature.

**Requisites:** AFRICAN 493 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

**AFRICAN 495 – FIFTH SEMESTER, A LANGUAGE OF NORTHERN AFRICA**

3 credits.

Advanced linguistic structures and literature.

**Requisites:** African 368 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**AFRICAN 496 – SIXTH SEMESTER, A LANGUAGE OF NORTHERN AFRICA**

3 credits.

Advanced linguistic structures and literature.

**Requisites:** AFRICAN 495 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**AFRICAN 497 – FIFTH SEMESTER, A LANGUAGE OF WEST AFRICA**

3 credits.

Advanced linguistic structures and literature.

**Requisites:** AFRICAN 394 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2010

**AFRICAN 498 – SIXTH SEMESTER, A LANGUAGE OF WEST AFRICA**

3 credits.

Advanced linguistic structure and literature.

**Requisites:** AFRICAN 497 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2012

**AFRICAN 500 – LANGUAGE AND SOCIETY IN AFRICA**

3-4 credits.

Language use in African societies; multilingualism; language in politics, religion, socialization.

**Requisites:** None

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**AFRICAN 501 – STRUCTURE AND ANALYSIS OF AFRICAN LANGUAGES**

3-4 credits.

Emphasis on phonetics (including transcription), and on theories and problems of phonology, morphology, and syntax.

**Requisites:** AFRICAN 301 for Undergrads; none for Grads

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**AFRICAN 503 – AFRICAN LINGUISTIC STRUCTURES-MORPHOLOGY AND SYNTAX**

3-4 credits.

Morphological and syntactic characteristics of various African languages, with emphasis on noun-class systems, pluralization, verbal systems and word formation.

**Requisites:** AFRICAN 501 or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**AFRICAN/LCA LANG 527 – ADVANCED SUMMER IMMERSION ARABIC**

8 credits.

Advanced level Arabic language taught in an 8-week residential summer language immersion format. Open only to students who have been admitted separately to the summer Arabic immersion program. Students must be admitted to the summer Arabic immersion program in order to enroll. A placement test may be required for admission

**Requisites:** AFRICAN/LCA LANG 324, or AFRICAN/LCA LANG 427, or equivalent (four semesters of Arabic language).

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2016

**AFRICAN 605 – ADVANCED TOPICS IN AFRICAN CULTURAL STUDIES**

3 credits.

This course will introduce students to foundational texts in the study of modern Africa and the social, political, and economic contexts of the continent's cultural production and productivity. We will organize our conceptual explorations around such interesting issues as the African encounter with Europe, anticolonialism, race, racialism, and subjectivity, African and European languages and epistemology, transformations in gendered structures, and the environment, and the circulation and consumption of cultural forms and practices. This course will encourage students to think about the long histories and theories of cultural production and practices in Africa, the local/global provenance of forms and styles, and the contexts of their local, national, and global circulation and consumption. The course will promote critical thinking by challenging students to put like and unlike texts together and pay attention to rhetoric and implied meanings, all in the context of Africa's interactive history with the world in the modern era.

**Requisites:** Senior standing

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**AFRICAN 606 – ADVANCED TOPICS IN AFRICAN LITERATURE**

3 credits.

A critical and historical study of selected topics in African literary studies.

**Requisites:** Senior standing

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**AFRICAN 609 – ADVANCED TOPICS IN GLOBAL BLACK MUSIC STUDIES**

3 credits.

This course will examine key critical concepts in the cultural study of racially specified "black music" as it has developed as a global phenomenon. Typically organized as a seminar, the course will pair major theories in black cultural analysis (postcolonial criticism, diaspora theory, global capitalism, etc.) with a body of literature pertaining to a particular musical topic, geographic area, or tradition. This pairing will provide the means by which students will develop critical skills for undertaking cultural music analysis. Throughout the semester, students will be encouraged to think about the long histories and theories of cultural production and practices in global Africa, the local/global provenance of forms and styles, and the contexts of their local, national, and global circulation and consumption.

**Requisites:** Junior standing

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017



**AFRICAN 669 – SPECIAL TOPICS**

3 credits.

**Requisites:** Cons chair

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**AFRICAN 670 – THEORIES AND METHODS OF LEARNING A LESS COMMONLY TAUGHT LANGUAGE**

2 credits.

A theoretical and practical exploration of second language acquisition (SLA) and self-instructional methods. Each student will test and/or modify one or more theories/methods by putting these self-instructional methods into practice in order to learn a less commonly taught language (LCTL). Intended for those with prior experience in the study of African languages, or advanced study of other foreign languages.

**Requisites:** Concurrent enrollment in AFRICAN 671

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AFRICAN 671 – MULTILINGUAL SEMINAR**

4 credits.

Through weekly meetings, students discuss their use of self-instructional methods to learn a less commonly taught language (LCTL), get feedback on individualized syllabi and assessment plans, and present progress reports orally and in writing. Homework includes continuous self-instruction in the chosen LCTL including reading, writing, oral, and listening skills; work with a conversation partner; and cultural knowledge.

**Requisites:** AFRICAN 670 or concurrent enrollment

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**AFRICAN 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 1994

**AFRICAN 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 1995

**AFRICAN 697 – DIRECTED STUDY OF A LESS COMMONLY TAUGHT LANGUAGE**

3-5 credits.

Monitored self-instruction of a less commonly taught language. Students will meet individually with the instructor. Requires development of an individualized study plan, bibliographic and online research, work with conversation partners online or in the community, and regular self-assessments.

**Requisites:** Must be taken concurrently with AFRICAN 670 during the first enrollment.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**AFRICAN 698 – DIRECTED STUDY**

1-6 credits.

**Requisites:** Graded on a Cr/N basis; requires consent of instructor and Junior or Senior standing

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**AFRICAN 699 – DIRECTED STUDY**

1-6 credits.

**Requisites:** Graded on a lettered basis; requires cons inst and Jr or Sr st

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**AFRICAN 700 – READING AND WRITING AFRICAN CULTURAL STUDIES**

3 credits.

This is a course on academic writing, designed to guide graduate students toward a full understanding of the craft of marshaling evidence to support an argument in the humanities, particularly African cultural studies. It covers the norms and expectations that inhere in academic writing as well as the mechanics of producing original scholarship.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AFRICAN 701 – ADVANCED TOPICS IN AFRICAN LINGUISTICS**

3 credits.

Advanced study of a topic in African linguistics. Content will vary with each offering.

**Requisites:** Sr major or Grad cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015



**AFRICAN 702 – AFRICAN VERBAL STYLISTICS**

3 credits.

Linguistic approaches to the verbal arts of Africa, oral, written, and in performance.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**AFRICAN 703 – TOPICS IN TEACHING AFRICAN LANGUAGES**

1 credit.

Theories and teaching methodologies for second language acquisition plus practical classroom techniques for teaching and directing programs in African languages.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**AFRICAN 704 – TOPICS IN AFRICAN CULTURAL STUDIES PEDAGOGY**

1 credit.

This course is an exploration of key thematic in the teaching and understanding of African cultural studies. It is organized centrally around methodology and pedagogy: what is, how we know, name, and categorize; and how we teach, analyze, and communicate.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**AFRICAN 705 – TEACHING PORTFOLIO**

2 credits.

This course will develop graduate students' metacognitive skills and critical thinking about teaching as a scholarly activity, through the creation of a teaching portfolio that documents the ideas and objectives that have informed their teaching to date and potential future teaching. Designed for students who teach foreign languages but open to graduate students in other humanities disciplines.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AFRICAN 796 – TEACHING APPRENTICESHIP**

3 credits.

Observation and discussion of undergraduate culture course. Consideration of pedagogical issues and limited opportunity for practice teaching.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**AFRICAN 802 – THEORY AND CRITICISM OF AFRICAN LITERATURE**

3 credits.

Through a wide range of theoretical texts, students will be trained to reflect critically on the ongoing conversation about cultural production and literary criticism in the context of African studies.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**AFRICAN 803 – THEORIES OF AFRICAN CULTURAL STUDIES**

3 credits.

This course is a study of the many ways of understanding the entire spectrum of culture and cultural production, circulation, consumption, and meaning making in Africa. It foregrounds material and imaginative cultural forms and practices—their origins, languages, contents, forms, functions, genres, audiences—as well as how these have been conceived and theorized by practitioners and scholars in the context of Africa and the world. The course will also examine the uses to which particular meanings of culture and its forms are put, by whom, and to what purpose, and how meanings are fought over, reshaped, and reconstituted, and under what conditions those are or can be possible. This is what "theory of African cultural studies" means in its most robust and imaginative senses. We will survey the entrenched modes of both conceptual and critical apprehension of the cultural forms and practices (from Negritude to postcolonialism and postmodernism), explore their methods of reading, raise the issue of their linkages to sources in Euro-America, and assess the extent to which the unique concerns of the biography of culture in Africa (expressed by its creators and scholars) have tried to tame and refashion what are now globally shared critical tools of cultural reading.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**AFRICAN/AFROAMER 813 – CONTEMPORARY AFRICAN AND CARIBBEAN DRAMA**

3 credits.

Historical and critical study of the classics of contemporary African and Caribbean literary drama written in English. We will organize our survey around such interesting thematic issues as the African encounter with Europe, postcolonial disillusionment and the betrayal of ideals, and also stylistic matters as the relationship(s) between traditional drama and other performance forms, and modern drama written in European languages. We will also read theories and critical approaches to understanding the cross-continental drama traditions and their contexts. This course will encourage students to think about the long histories of cultural, performance, and theatrical relationships between Africa and the Caribbean and how the relationships have been shaped by race and economics, past and present. The course will promote critical thinking by challenging students to question conventional claims made by others and their own assumptions; it will invite students to think through the perspectives of others with empathy and respect, and stimulate analytical thinking about identity. Writers to be studied include Wole Soyinka, Derek Walcott, Aime Cesaire, Ama Ata Aidoo, Femi Osofisan, Sindiwe Magona, Mustapha Matura, and the Sistren Theatre Collective.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**AFRICAN 901 – SEMINAR IN MODERN AFRICAN LITERATURE**

3 credits.

Special topics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**AFRICAN 902 – SEMINAR IN TRADITIONAL AFRICAN LIT**

3 credits.

Topics in oral art forms.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012**AFRICAN 903 – SEMINAR IN AFRICAN LINGUISTICS**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012**AFRICAN 905 – SEMINAR IN AFRICAN CULTURAL STUDIES: TOPICS**

3 credits.

This seminar examines various mediated cultural forms such as broadcasting, news, performance, music, film, or social media created and used and across regions and countries in Africa, addressing issues such as cultural identity, nation building, constraints on expression, access, and reception, and the interaction of global and African cultural forms.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**AFRICAN 926 – SEMINAR IN RESEARCH METHODS IN AFRICAN CULTURAL STUDIES**

3 credits.

Field methods, techniques, and analytical approaches for students doing research in African cultural studies. Topics vary but may include ethnography, narrative analysis, critical discourse analysis, and other research methods.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**AFRICAN 935 – SEMINAR IN SOUTH AFRICAN ORAL & WRITTEN LITERATURES**

3 credits.

One or more problems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2009**AFRICAN 955 – SEMINAR IN AFRICAN MYTHOLOGY**

3 credits.

**Requisites:** AFRICAN 201 or 440 or 470 or 471**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2010**AFRICAN/ANTHRO/ECON/GEOG/HISTORY/POLI SCI 983 – INTERDEPARTMENTAL SEMINAR-AFRICAN STUDIES**

3 credits.

Interdisciplinary inquiry in African society and culture.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016

**AFRICAN 990 – THESIS**

1-9 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**AFRICAN 999 – INDEPENDENT READING AND RESEARCH**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017

## AFRO-AMERICAN STUDIES (AFROAMER)

**AFROAMER 151 – INTRODUCTION TO CONTEMPORARY AFRO-AMERICAN SOCIETY**

3 credits.

Survey of the characteristics and problems of Afro-Americans in contemporary society.

**Requisites:** Open to Fr**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**AFROAMER 154 – HIP-HOP AND CONTEMPORARY AMERICAN SOCIETY**

3 credits.

The aesthetic and political evolution of hip-hop culture and its relationship to contemporary social issues.

**Requisites:** None**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**AFROAMER 155 – THEY: RACE IN AMERICAN LITERATURE**

3 credits.

The evolution of stereotypes. The literary manifestations of the assumptions black and white American writers hold toward members of the opposite race.

**Requisites:** Open to freshmen and sophomores only.**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2012**AFROAMER 156 – BLACK MUSIC AND AMERICAN CULTURAL HISTORY**

3 credits.

This course examines the interaction between Afro-American musical culture and its historical context, with an emphasis on the period from 1920 to the present.

**Requisites:** Open to Fr**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**AFROAMER 199 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014**AFROAMER/ART HIST 204 – INTRODUCTION TO VISUAL CULTURES**

3 credits.

This is a foundation course in the transdisciplinary field of Visual Cultures. It examines theories and technologies of vision and visibility in their disparate manifestations over time and cultures and geographies.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No

**AFROAMER/AFRICAN 220 – HIPHOP, YOUTH CULTURE, AND POLITICS IN SENEGAL**

3 credits.

This course explores how HipHop, a quintessential manifestation of African American culture, is adopted and adapted by African youth to fight for social justice and democracy in their local contexts, while at the same time constructing a diasporic African sensibility and "cultural citizenship" that transcends borders and oceans. Beginning with the history, culture, and politics of HipHop in the U.S., we compare and contrast HipHop's development in Africa with specific attention to Senegal. Students will develop a familiarity with youth culture and politics in Senegal and study the ongoing process of cross-cultural flows and hybridity.

**Requisites:** None

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AFROAMER/GEN&WS 221 – INTRODUCTION TO BLACK WOMEN'S STUDIES**

3 credits.

This course will provide students with an overview of the field of Black women's studies.

**Requisites:** Open to Fr

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AFROAMER/GEN&WS 222 – INTRODUCTION TO BLACK WOMEN WRITERS**

3 credits.

An introduction to the writings of Afro-American women from the nineteenth to the twentieth century. Fiction, autobiography, non-fiction prose, and poetry will be read and discussed.

**Requisites:** Open to Fr

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**AFROAMER 225 – INTRODUCTION TO AFRICAN AMERICAN DRAMATIC LITERATURE**

3 credits.

Introduction to the history of African American theater and major African American playwrights and actors.

**Requisites:** First yr stdts only

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**AFROAMER 227 – MASTERPIECES OF AFRICAN AMERICAN LITERATURE**

3 credits.

Analysis of major works of African American fiction, drama, poetry and autobiography. Attention given to historical, cultural and biographical contexts.

**Requisites:** Open to Fr and So only

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AFROAMER 231 – INTRODUCTION TO AFRO-AMERICAN HISTORY**

3 credits.

Survey from the African beginnings to the present day. Focus on slave trade and slavery; major black figures of the past; social, economic, and political trends within the black community.

**Requisites:** Open to Fr

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AFROAMER/AFRICAN 233 – GLOBAL HIPHOP AND SOCIAL JUSTICE**  
3 credits.

Can HipHop culture help produce a more just world? If so, what theory and praxis best advance this aim? These are the questions that drive this conceptual course. Our critical interrogation of the relationship between HipHop and social justice considers the culture from its U.S. Black Power era underpinnings to its disparate contemporary "glocal" manifestations. We begin by asking what is "HipHop," what is "social justice," and what is their relationship, and proceed to consider how HipHop can be an effective force for social justice and what obstacles mitigate against this potential. These discussions will develop familiarity with important concepts in Black studies and social theory such as race and colonialism, imperialism and hegemony, structure and agency, identity and strategic essentialism. Weekly readings will typically pair writings specifically on HipHop with theory from across the humanities and social sciences including philosophy, sociology, cultural studies, and political economy. We will endeavor to consider the race/class/gender dimensions of our weekly topics. Students will acquire a broader familiarity with HipHop activism, and develop new conceptual tools and critical thinking skills.

**Requisites:** None

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**AFROAMER/ART HIST 241 – INTRODUCTION TO AFRICAN ART AND ARCHITECTURE**

3 credits.

This course examines the rich heritage of African arts and architecture as they shape and have been shaped by the histories and cultural values (social, political, religious, philosophical, and aesthetic) of African peoples, both past and present, on the continent where humanity began. It includes an historical overview of selected artistic traditions from different parts of the continent from 26,000 BCE to the 21st century and thematic/cultural case studies: artists and aesthetics; textiles, decorative, and personal/body arts; architecture; and individual artists.

**Requisites:** None

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AFROAMER/ART HIST 242 – INTRODUCTION TO AFRO-AMERICAN ART**  
3 credits.

Historical survey of Afro-American art. Beginning with the African heritage and concluding with creativity of the 1970's, it examines the evolution of Afro-American art. Attention to the aesthetic sensibilities of diverse styles as well as the social significance of Black art within the art arena.

**Requisites:** Open to Fr

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AFROAMER/ANTHRO/C&E SOC/GEOG/HISTORY/LACIS/POLI SCI/SOC/SPANISH 260 – LATIN AMERICA: AN INTRODUCTION**

3-4 credits.

Latin American culture and society from an interdisciplinary perspective; historical developments from pre-Columbian times to the present; political movements; economic problems; social change; ecology in tropical Latin America; legal systems; literature and the arts; cultural contrasts involving the US and Latin America; land reform; labor movements; capitalism, socialism, imperialism; mass media.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**AFROAMER 265 – AFRICAN-AMERICAN AUTOBIOGRAPHY**  
3 credits.

Autobiographies of major Afro-Americans studied in depth to locate the constants and variables in the Black American experience. Focus on the variety of individual responses to conditions in the United States.

**Requisites:** Freshman or Sophomore status for the honors offering

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2014

**AFROAMER/GEN&WS 267 – ARTISTIC/CULTURAL IMAGES OF BLACK WOMEN**

3 credits.

Cultural images by and about Black women; feminine creativity in the arts within their historical, cultural, social, and political contexts.

**Requisites:** Open to first year students

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**AFROAMER 271 – SELECTED TOPICS IN AFRICAN AMERICAN CULTURE**  
3 credits.

Introductory level course on specific topics in African American culture.

**Requisites:** Open to freshmen

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**AFROAMER 272 – RACE AND AMERICAN POLITICS FROM THE NEW DEAL TO THE NEW RIGHT**  
3 credits.

Survey of the decisive role played by race in American politics, 1932-present. Focus on origins and accomplishments of "the Second Reconstruction"; Black Power and white backlash; contemporary racial politics and issues.

**Requisites:** Open to Fr

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AFROAMER/HIST SCI/MED HIST 275 – SCIENCE, MEDICINE, AND RACE: A HISTORY**  
3 credits.

Surveys the medical and scientific constructions of categories of race, placing the development of racial theories in a broad social and political context. The course will pay particular attention to the importance of racial science in slavery and colonialism.

**Requisites:** Open to Fr

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**AFROAMER/AFRICAN/ANTHRO/GEOG/HISTORY/POLI SCI/SOC 277 – AFRICA: AN INTRODUCTORY SURVEY**  
4 credits.

African society and culture, polity and economy in multidisciplinary perspectives from prehistory and ancient kingdoms through the colonial period to contemporary developments, including modern nationalism, economic development and changing social structure.

**Requisites:** None

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AFROAMER/AFRICAN/HISTORY/POLI SCI 297 – AFRICAN AND AFRICAN-AMERICAN LINKAGES: AN INTRODUCTION**  
4 credits.

Analysis of retention of African elements in African-American oral, written, and material culture. Social, cultural, and political issues regarding race, self-definition, and self-determination in both Africa and North America will be examined.

**Requisites:** None

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**AFROAMER 302 – UNDERGRADUATE STUDIES IN AFRO-AMERICAN HISTORY**  
3 credits.

In-depth treatment of a key theme in black historical studies.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**AFROAMER 303 – BLACKS, FILM, AND SOCIETY**  
3 credits.

Study of the interpretations of the Afro-American past conveyed via theatrical films and television; relationship to other images of blacks found throughout the popular culture; relationship to societal trends.

**Requisites:** So st

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AFROAMER/MUSIC 308 – BLACK MUSIC (1920-PRESENT): RHYTHM SECTION AND COMBOS**  
2 credits.

Introduction to the history of jazz; traces Black American music from African origins.

**Requisites:** So st and cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015



**AFROAMER/MUSIC 309 – BLACK MUSIC (1920-PRESENT): VOCALIST/TROMBONE/MISC INSTRUMENTAL**

2 credits.

Introduction to the history of jazz: traces Black American music from African origins.

**Requisites:** So st and cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**AFROAMER/MUSIC 310 – BLACK MUSIC (1920-PRESENT): THE TRUMPET**

2 credits.

Introduction to the history of jazz: traces Black American Music from African origins.

**Requisites:** So st and cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**AFROAMER/MUSIC 311 – BLACK MUSIC (1920-PRESENT): THE SAXOPHONE**

2 credits.

Introduction to the history of jazz: traces Black American music from African origins.

**Requisites:** So st and cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**AFROAMER/DANCE/MUSIC 318 – CULTURAL CROSS CURRENTS: WEST AFRICAN DANCE/MUSIC IN THE AMERICAS**

3 credits.

The influence of traditional West African dance/music heritage in historical, artistic, social contexts in the development of new hybrid forms of music/dance created by cross-pollination of cultures of Africans, Europeans and indigenous peoples in the New World.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2016**AFROAMER/HISTORY 321 – AFRO-AMERICAN HISTORY SINCE 1900**

3-4 credits.

Survey of African American history from 1900 to the present. Topics covered include segregation, the Civil Rights Movement, the political, social and cultural changes of the late 20th century, and the Obama presidency.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**AFROAMER/HISTORY 322 – AFRO-AMERICAN HISTORY TO 1900**

3-4 credits.

Survey of African American history from its roots in Africa to the end of the 19th century. Topics considered include the slave trade, the political and cultural practices of enslaved communities, forms of resistance, Reconstruction, and systems of segregation.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**AFROAMER/GEN&WS 323 – GENDER, RACE AND CLASS: WOMEN IN U.S. HISTORY**

3 credits.

Historical interplay of racism and sexism in the lives of Black and White women of different class backgrounds in the United States.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2017

**AFROAMER/GEN&WS 324 – BLACK WOMEN IN AMERICA: RECONSTRUCTION TO THE PRESENT**

3 credits.

Explores African American women's experience from waning days of slavery to present. Topics include slavery, emancipation, reconstruction, segregation, migration, urban and rural poverty, civil rights, nationalism, feminism and sexual politics.

**Requisites:** So st**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**AFROAMER/GEN&WS 326 – RACE AND GENDER IN POST-WORLD WAR II U.S. SOCIETY**

3 credits.

Assesses how race and gender (as well as socio-economic status, age, sexuality, region, etc.) shaped the experiences and options of African Americans, especially women, in U.S. society from WW II to the present.

**Requisites:** So st**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**AFROAMER/GEN&WS 333 – BLACK FEMINISMS**

3 credits.

Uses an interdisciplinary framework to examine the key assumptions, debates, and silences in contemporary black feminist thought.

**Requisites:** Sophomore standing, a GenWS course, an AfroAmer course or consent of instructor**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**AFROAMER 337 – THE HARLEM RENAISSANCE**

3 credits.

Black literature and culture during the 1920's. Focus on unique Black literary expression of era, historical background, esthetics, polemical essays.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**AFROAMER 338 – THE BLACK ARTS MOVEMENT**

3 credits.

Focuses on the notion of blackness as it is developed in the poetry and drama of key figures of the 1960s Black Arts Movement. Emphasizes the emergence of a critical discourse specific to a "new" black aesthetic.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**AFROAMER/HISTORY 347 – THE CARIBBEAN AND ITS DIASPORAS**

3 credits.

Major topics in the history of Caribbean societies from the European conquest to the present. Emphasis on colonial rule, slavery, and the diaspora communities created by Caribbean peoples in the United States and Europe.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016

**AFROAMER/GEN&WS 367 – ART AND VISUAL CULTURE: WOMEN OF THE AFRICAN DIASPORA AND AFRICA**

3 credits.

This course focuses on the art and visual culture by/or pertaining to women throughout the African Diaspora and Africa. Though the focus is on 10th century art by black women, it will go into visual culture (art objects, photographs, images, dress, culturally-coded representation) concerning black women historically.

**Requisites:** Afro-Amer 242; majors only; So st or cons inst**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**AFROAMER/HISTORY 393 – SLAVERY, CIVIL WAR, AND RECONSTRUCTION, 1848-1877**

3-4 credits.

African-American slavery and its impact on mid-19th century social, political, and economic life; the causes, course, and consequences of the Civil War; the rise and fall of postwar Reconstruction and non-racial citizenship; the impact of these histories on contemporary American society.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**AFROAMER/MUSIC 400 – MUSIC CULTURES OF THE WORLD: AFRICA, EUROPE, THE AMERICAS**

3 credits.

Explores the performance, transmission, and consumption of traditional and popular musics of Africa, Europe, and the Americas. Employs musical-analytic and critical approaches to trace transnational musical circulation.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2011**AFROAMER/RELIG ST 404 – AFRICAN AMERICAN RELIGIONS**

3 credits.

Explores the varieties of African American religious expressions from the colonial era to the present with emphasis on racism and resistance, marginalization and resilience, creative expression and the continued influence of Africa and the Caribbean.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**AFROAMER/AFRICAN 413 – CONTEMPORARY AFRICAN AND CARIBBEAN DRAMA**

3-4 credits.

A critical study of the major works.

**Requisites:** Junior standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**AFROAMER/ASIAN AM 443 – MUTUAL PERCEPTIONS OF RACIAL MINORITIES**

3 credits.

Survey course on the mutual perceptions of primarily people of African and Asian ancestry. It focuses on how these groups evaluate perceive and interact with one another and others such as Native Americans, whites and Hispanics. Social psychological perspectives are highlighted as is an international overview.

**Requisites:** Afro-Amer 151 or 673**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**AFROAMER 456 – SOUL MUSIC AND THE AFRICAN AMERICAN FREEDOM MOVEMENT**

3 credits.

Focus on the place of music, musicians and the music industry in the African American Freedom Movement from the 1950s to the mid-1970s. Emphasis on the role of the black church, the organizing tradition, and the transition from Civil Rights to Black Power.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016

**AFROAMER 469 – INTERDISCIPLINARY STUDIES IN THE ARTS**

1-4 credits.

Guest artists will offer interdisciplinary courses on topics appropriate to their specializations.

**Requisites:** Consent of department

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**AFROAMER 501 – 19TH CENTURY AFRO-AMERICAN LITERATURE**

3 credits.

Historical and critical analysis of the poetry, fiction, and drama of 19th century African American writers. Also focuses on the essays of major African American intellectuals such as W.E.B. DuBois and Anna Julia Cooper.

**Requisites:** Junior standing 3 credits intermediate literature

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**AFROAMER/MUSIC 509 – SEMINAR IN AFRO-AMERICAN MUSIC HISTORY AND CRITICISM**

3 credits.

Introduction to historical research in and critical interpretation of Afro-American music. Consideration of standard musical and critical sources.

**Requisites:** Cons inst or Grad st

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**AFROAMER/POLI SCI 519 – AFRICAN AMERICAN POLITICAL THEORY**

3-4 credits.

Explores a range of theories that African Americans have drawn upon to cope with and ameliorate their political circumstances in the United States within the specific parameters of political theory.

**Requisites:** Sophomore standing and (POLI SCI 160 or AFROAMER 151) or (POLI SCI 209 taken prior to fall 2017) or graduate or professional standing

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**AFROAMER/HDFS/SOC WORK 521 – AFRICAN AMERICAN FAMILIES**

3 credits.

Historical background; variations in contemporary family patterns; courtship and marriage, reproduction, and socialization stresses; "culture of poverty" theories; sources of stability and change.

**Requisites:** Junior standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2011

**AFROAMER/HIST SCI/MED HIST 523 – RACE, AMERICAN MEDICINE AND PUBLIC HEALTH**

3 credits.

The course will provide historical perspectives on current dilemmas facing black patients and health care professionals.

**Requisites:** Jr or Sr st

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**AFROAMER 525 – MAJOR AUTHORS**

3 credits.

Intensive literary criticism of the works of selected authors. Emphasis on fiction, but non-fiction when appropriate. Works of one or two authors.

**Requisites:** Junior standing minimum of 2 courses in literature

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**AFROAMER/ED POL 567 – HISTORY OF AFRICAN AMERICAN EDUCATION**

3 credits.

An examination of the social, economic, political, and cultural issues influencing the education of Black Americans from the early nineteenth century to the 1960s.

**Requisites:** Junior standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**AFROAMER 605 – CRITICAL AND THEORETICAL ISSUES IN AFRO-AMERICAN LITERATURE**

3 credits.

A problem oriented course designed to focus on critical and theoretical writings about literature by major 20th century African-American writers. Students will be encouraged to test certain prevailing theories of African-American literature against their own readings of primary and secondary sources and to develop their ideas in a research paper.

**Requisites:** Junior standing and 6 credits of literature**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2011**AFROAMER/GEN&WS 624 – AFRICAN AMERICAN WOMEN'S ACTIVISM (19TH & 20TH CENTURIES)**

3 credits.

Examines Black women's struggles for racial justices; reconsiders conventional notions of leadership, politics and protest. Topics include abolitionism, anti-lynching campaigns, woman suffrage, labor movement, club movement, cultural expressions, civil rights protest, Black feminism/womanism, poverty and welfare rights, environmental racism, etc.

**Requisites:** So st; instr permission required**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2013**AFROAMER/GEN&WS 625 – GENDER, RACE AND THE CIVIL RIGHTS MOVEMENT**

3 credits.

This course focuses on the emerging field of gender studies in the scholarship on the post-World War II civil rights movement in the United States.

**Requisites:** Jr st; inst permission required**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**AFROAMER/HISTORY 628 – HISTORY OF THE CIVIL RIGHTS MOVEMENT IN THE UNITED STATES**

3 credits.

Civil rights history from 1930-1970. Legal, historical and economic origins of the civil rights movement. Study of the movement's impact on United States culture, politics, and international relations.

**Requisites:** Junior standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**AFROAMER 631 – COLLOQUIUM IN AFRO-AMERICAN HISTORY**

3 credits.

Readings, discussion, and research seminar for advanced students in Afro-American History.

**Requisites:** Jr or Sr st**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**AFROAMER/ART HIST 643 – SELECTED TOPICS IN AFRICAN DIASPORA ART HISTORY**

3 credits.

Art history of a specific African cultural tradition (eg. Yoruba, Kongo, Fon, Akan) and its transformation in the Caribbean, Central and South America in response to new social, historical, and hegemonic forces.

**Requisites:** Afro-Amer 241, 242, 243 or consent of instructor**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012**AFROAMER 669 – INTERDISCIPLINARY STUDIES IN THE ARTS**

1-4 credits.

Guest artists will offer interdisciplinary courses on topics appropriate to their specializations.

**Requisites:** Consent of department**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016

**AFROAMER 671 – SELECTED TOPICS IN AFRO-AMERICAN HISTORY**

3 credits.

An intensive analysis of specific themes in the Black American experience. Subjects vary with the instructor.

**Requisites:** Junior standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**AFROAMER/ENGL 672 – SELECTED TOPICS IN AFRO-AMERICAN LITERATURE**

3 credits.

An intensive analysis of specific themes in the Afro-American experience. Subjects vary with instructor. Students wanting credit in English must have 6 credits of introductory literature

**Requisites:** Junior standing.

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**AFROAMER 673 – SELECTED TOPICS IN AFRO-AMERICAN SOCIETY**

3 credits.

An intensive analysis of specific themes in the Afro-American experience. The subjects vary with the instructor.

**Requisites:** Jr st

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**AFROAMER/ART 674 – SELECTED TOPICS ON AFRO-AMERICAN ARTISTS**

3 credits.

Works of Black artists in the U.S. discussed historically in terms of movements which they created and in terms of trends evolving on an international scale. Jr st and cons inst.

**Requisites:** Consent of instructor

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2012

**AFROAMER 675 – SELECTED TOPICS IN AFRO-AMERICAN CULTURE**

3 credits.

An intensive analysis of specific themes in the Afro-American experience.

**Requisites:** Varies with topic

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**AFROAMER/GEN&WS 677 – CRITICAL AND THEORETICAL PERSPECTIVES IN BLACK WOMEN'S WRITINGS**

3 credits.

Analyses and interpretations of literary works by black women writers through historical, philosophical, political, feminist, and other contemporary critical methods. No prereq for Grads

**Requisites:** Undergrads: 2 crses in Afro-Amer lit above intro level, or equiv in another dept of lit.

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**AFROAMER 678 – MODERN/CONTEMPORARY ART OF NIGERIA AND THE AFRICAN DIASPORA**

3 credits.

This seminar will examine the history of modern and contemporary art in Nigeria and the African diaspora. It will analyze trans-cultural developments in paintings, sculpture, and other media, as it engages globalization, colonialism, Euro-primitivist modernism, postmodernism, postcolonialism, and feminism.

**Requisites:** Cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011



**AFROAMER/GEN&WS 679 – VISUAL CULTURE, GENDER AND CRITICAL RACE THEORY**

3 credits.

Examines tensions between visual and verbal representations that variably construct and negotiate power relations in racialized human experience.

**Requisites:** 3 crses at 300 level or above in any one of the following areas: Afro-Amer studies; art; art hist; com arts; curric instr

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**AFROAMER 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Hon candidates cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2008

**AFROAMER 682 – SENIOR HONOR THESIS**

3 credits.

**Requisites:** Hon candidates cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2008

**AFROAMER 691 – SENIOR THESIS**

2-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**AFROAMER 692 – SENIOR THESIS**

2-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**AFROAMER 699 – DIRECTED STUDY IN AFRO-AMERICAN STUDIES**

1-6 credits.

**Requisites:** Graded on a lettered basis; requires cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**AFROAMER/ED POL/HISTORY 712 – EDUCATION AND THE CIVIL RIGHTS MOVEMENT**

3 credits.

Explores the historical relationship between education and the African American freedom struggle from the early twentieth century to the present. Topics include school segregation, desegregation, and resegregation; high school and college student activism; Black Power; civil rights protest strategies and tactics, and the role of the federal government.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**AFROAMER 790 – RESEARCH AND THESIS**

1-12 credits.

**Requisites:** Masters st and cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**AFROAMER/ART HIST 801 – HISTORIOGRAPHY, THEORY AND METHODS IN VISUAL CULTURE**

3 credits.

Prepares student for graduate work in the transdisciplinary study of Visual Cultures by building on the knowledge, theories, and methods that are fundamental to the discipline. It will develop skills in critical reading, research, analysis, writing, and oral presentation.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AFROAMER/ART HIST 802 – VISUAL CULTURES: TOPICS IN VISUAL CULTURES**

3 credits.

Content will vary to facilitate in-depth engagement of critical facts, theories, and images in specific areas of specialization.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**AFROAMER/AFRICAN 813 – CONTEMPORARY AFRICAN AND CARIBBEAN DRAMA**

3 credits.

Historical and critical study of the classics of contemporary African and Caribbean literary drama written in English. We will organize our survey around such interesting thematic issues as the African encounter with Europe, postcolonial disillusionment and the betrayal of ideals, and also stylistic matters as the relationship(s) between traditional drama and other performance forms, and modern drama written in European languages. We will also read theories and critical approaches to understanding the cross-continental drama traditions and their contexts. This course will encourage students to think about the long histories of cultural, performance, and theatrical relationships between Africa and the Caribbean and how the relationships have been shaped by race and economics, past and present. The course will promote critical thinking by challenging students to question conventional claims made by others and their own assumptions; it will invite students to think through the perspectives of others with empathy and respect, and stimulate analytical thinking about identity. Writers to be studied include Wole Soyinka, Derek Walcott, Aime Cesaire, Ama Ata Aidoo, Femi Osofisan, Sindiwe Magona, Mustapha Matura, and the Sistren Theatre Collective.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No

## AGRICULTURAL AND APPLIED ECONOMICS (A A E)

**A A E 1 – COOPERATIVE EDUCATION/CO-OP IN AGRICULTURAL & APPLIED ECONOMICS**

1 credit.

Full-time off-campus work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career. Students receive credit only for the term in which they are actively enrolled and working. The same work experience may not count towards credit in A A E 399.

**Requisites:** So st, and consent of supervising instructor and academic advisor.**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**A A E 215 – INTRODUCTION TO AGRICULTURAL AND APPLIED ECONOMICS**

3 credits.

Introduction to economic ways of thinking about a wide range of problems and issues. Topics include consumption, production, prices, markets, finance, trade, pollution, growth, farms, taxes, and development.

**Requisites:** MATH 112**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**A A E/ENVIR ST 244 – THE ENVIRONMENT AND THE GLOBAL ECONOMY**

3 credits.

The "economic way of thinking" about global and regional environmental issues. Topics include climate change, biodiversity preservation, ocean fisheries, environmental impacts of international trade, poverty and the environment, and sustainability.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**A A E 246 – CLIMATE CHANGE ECONOMICS AND POLICY**

3 credits.

Climate change and the role of applied economics in related policy analysis and research. Economics of mitigation, adaptation and geo-engineering; integrated assessment; environmental implications of energy use; climate change impacts on land use. Use of economic analysis and modeling for public policy design.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**A A E 289 – HONORS INDEPENDENT STUDY**

1-2 credits.

Inter-Ag 288

**Requisites:** Enrolled in the CALS Honors Prgm So or Jr st.**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions**A A E 299 – INDEPENDENT STUDY**

1-3 credits.

Open to Freshmen

**Requisites:** Freshmen, Sophomore or Junior standing written consent of instructor.**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**A A E/ECON/REAL EST/URB R PL 306 – THE REAL ESTATE PROCESS**

3 credits.

Introductory survey course. Decision-making processes for the manufacture, marketing, management and financing of real estate space. Survey of institutional context, economics of urbanization, historical pattern and structure of city growth, and public policy issues regarding urban environment and business management.

**Requisites:** So, Jr, or Sr st; ECON 101**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**A A E 319 – THE INTERNATIONAL AGRICULTURAL ECONOMY**

3 credits.

The nature of trade in agricultural products, trade policies and practices of importing and exporting nations, agricultural policies of major trading blocks, market instability and other primary commodity problems, recent history and current developments in multilateral trade policy.

**Requisites:** AAE 215 or ECON 101 or consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**A A E 320 – FARMING SYSTEMS MANAGEMENT**

3 credits.

Methods of economic analysis, planning and management applied to conventional and alternative farming systems.

**Requisites:** AAE 215 or ECON 101**Repeatable for Credit:** No**Last Taught:** Fall 2017**A A E 322 – COMMODITY MARKETS**

3 credits.

Principles and practices in marketing systems for U.S. agricultural commodities. Vertical organization; forward contracts, future markets, agricultural options and price formation. Alternate management at the farm, processor, wholesale and retail levels.

**Requisites:** AAE 215 or ECON 101 or equivalent**Repeatable for Credit:** No**Last Taught:** Spring 2017**A A E 323 – COOPERATIVES**

3 credits.

Cooperatives: Analysis of basic principles, structure and organization, legal bases, finance, history and role in U.S. economy. Different types and uses as tools in the U.S. and developing countries.

**Requisites:** Junior standing or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**A A E/C&E SOC/SOC 340 – ISSUES IN FOOD SYSTEMS**

3-4 credits.

With primary emphasis on the U.S., the course covers social, economic and biological dimensions of food systems. Using classroom and community experience, the course combines academic approaches with practitioner knowledge. A community project is required.

**Requisites:** SOC/C&E SOC 140, CE SOC/SOC 181, 210, or 211**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**A A E/ECON/ENVIR ST 343 – ENVIRONMENTAL ECONOMICS**

3-4 credits.

Microeconomic principles underlying the use of natural resources such as air, water, forests, fisheries, minerals and energy. These principles are applied in the examination of pollution control, preservation vs. development, deforestation, and other environmental issues.

**Requisites:** A A E 215, ECON 101, or ECON 111**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**A A E/AGRONOMY/INTER-AG/NUTR SCI 350 – WORLD HUNGER AND MALNUTRITION**

3 credits.

Hunger and poverty in developing countries and the United States. Topics include: nutrition and health, population, food production and availability, and income distribution and employment.

**Requisites:** None**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**A A E/INTL ST 373 – GLOBALIZATION, POVERTY AND DEVELOPMENT**

3 credits.

Addresses the process of globalization – trade, international capital flows, labor migration and remittances, and aid – from the perspective of developing economies and the development process.

**Requisites:** AAE 215, ECON 101 or equivalent, or consent of instructor**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**A A E/INTL ST 374 – THE GROWTH AND DEVELOPMENT OF NATIONS IN THE GLOBAL ECONOMY**

3 credits.

This course explores the roles of markets, states, and civil institutions, using economic theory, computer simulations, and historical experience to better understand the forces that shape the wealth and well-being of nations and people around the world.

**Requisites:** ECON 101, or ECON 102, or AAE 215, or equiv**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**A A E 375 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Cons inst**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**A A E 399 – COORDINATIVE INTERNSHIP/COOPERATIVE EDUCATION**  
1-8 credits.**Requisites:** Cons suprsvg inst, advisor, intrshp prog coordinator**Course Designation:** Level - AdvancedL&S Credit - Counts as Liberal Arts and Science credit in L&S  
Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**A A E 400 – STUDY ABROAD IN AGRICULTURAL AND APPLIED ECONOMICS**

1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. W-Madison Study Abroad Program

**Requisites:** Current registration in a U.**Repeatable for Credit:** Yes, unlimited number of completions**A A E 419 – AGRICULTURAL FINANCE**

3 credits.

Introduction to basic finance concepts. Topics include financial statements, ratio analysis and interpretation, investment analysis, capital budgeting, credit concepts, and capital markets.

**Requisites:** AAE 215 or ECON 101 or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**A A E/ECON 421 – ECONOMIC DECISION ANALYSIS**

4 credits.

Managerial oriented, applied presentation of microeconomic theory. Quantitative emphasis with extensive homework use of spreadsheets and written executive summaries of applied economic analyses. Applications on natural resources and agricultural markets.

**Requisites:** ECON 301 STAT 301, or equiv**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**A A E/ECON/INTL BUS 462 – LATIN AMERICAN ECONOMIC DEVELOPMENT**

3 credits.

A historico-institutional analysis of development problems in the principal Latin American countries, with attention to differentiation of national growth patterns and alternative development strategies.

**Requisites:** ECON 102 or 111 and Jr st**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**A A E/ECON 473 – ECONOMIC GROWTH AND DEVELOPMENT IN SOUTHEAST ASIA**

3 credits.

Evaluates economic development strategies in Southeast Asia and their implications for growth, distribution and environment. Students learn trade and development theory as well as specific knowledge of Southeast Asian economic development.

**Requisites:** Two crses in AAE and/or Econ, or cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**A A E/ECON 474 – ECONOMIC PROBLEMS OF DEVELOPING AREAS**

3 credits.

Analyzes aggregate growth, income distribution and poverty in lower income economies. Uses microeconomics of imperfect labor, capital and insurance markets to explore why some individuals advance economically as their economies grow and others fall behind. Considers implications of aggregate and micro analysis for national and international economic policy.

**Requisites:** Sr st and two crses in econ**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**A A E/ECON 477 – AGRICULTURAL AND ECONOMIC DEVELOPMENT IN AFRICA**

3 credits.

Composition, organization, and techniques of agricultural production; economic change and development of agriculture, economic policies, special problems of developing African agriculture.

**Requisites:** Two crses in AAE and/or Econ, or cons inst**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**A A E 500 – SENIOR CAPSTONE EXPERIENCE**

3 credits.

Teaches students how to apply economic theory to economic problems, utilize quantitative techniques in economic analyses, and communicate findings and results of economic analyses.

**Requisites:** Sr st; MATH 211, AAE 420 Stat 201, or equivs**Repeatable for Credit:** No**Last Taught:** Spring 2017

**A A E/REAL EST/URB R PL 520 – COMMUNITY ECONOMIC ANALYSIS**

3 credits.

Economic theory (location and growth) applicable to community economic development; the role of private and public sector in local economic development, and techniques for economic analysis of community.

**Requisites:** ECON 301 or equiv**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**A A E/ECON 526 – QUANTITATIVE METHODS IN AGRICULTURAL AND APPLIED ECONOMICS**

4 credits.

Use of quantitative methods (mathematics, statistics, and optimization) to analyze problems faced by decision makers in natural resources and agriculture. Extensive homework requiring use of quantitative methods via spreadsheet tools to solve problems from an applied decision context.

**Requisites:** MATH 211, ECON 301, STAT 301, or equiv**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**A A E/ECON/F&W ECOL 531 – NATURAL RESOURCE ECONOMICS**

3 credits.

Economic concepts and tools relating to management and use of natural resources, including pricing principles, cost-benefit analysis, equity, externalities, economic rent, renewable and nonrenewable resources, and resource policy issues.

**Requisites:** ECON 301 and MATH 211, or equiv**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**A A E/M H R 540 – INTELLECTUAL PROPERTY RIGHTS, INNOVATION AND TECHNOLOGY**

3 credits.

Uses economic concepts to illustrate the nature of technological innovation, competition, and economic growth. Topics: economics of the intellectual property protection (IPP); market structure and innovation; interaction between public and private sectors; IPP and anticompetitive policies; globalization.

**Requisites:** ECON 301 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**A A E/CIV ENGR/ENVIR ST/URB R PL 561 – ENERGY MARKETS**

3 credits.

Energy resources are an essential element of the world's business, political, technical and environmental landscape. Analytic tools provided by the discipline of economics expands our understanding of this critical issue. Energy supply markets reviewed include both fossil fuels and renewable resources. Energy demand sectors include residential, commercial, industrial and transportation. Electricity represents an intermediate energy market. The interactions among these markets participants indicate how scarce resources are allocated among competing needs in the world economy.

**Requisites:** A A E 215, ECON 101, or ECON 111**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**A A E/ECON 567 – PUBLIC FINANCE IN LESS DEVELOPED COUNTRIES**

3 credits.

Potential and limitations of fiscal policy as a development instrument in low-income countries; tax harmonization in economic integration; case studies in tax reform; budgeting and planning.

**Requisites:** Intro crse in econ thry, public finance or econ dev**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2012**A A E 575 – SPECIAL TOPICS**

1-4 credits.

Special topics in Agricultural Economics at the intermediate level. Topics will vary from semester to semester.

**Requisites:** Jr st or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012**A A E 635 – APPLIED MICROECONOMIC THEORY**

3 credits.

Microeconomic theory applied to consumers, producers, markets, and welfare analysis. Emphasis is on the mathematics of duality and optimization methods. Computer applications of the theory.

**Requisites:** Two semesters of calc ECON 301, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017



**A A E 636 – APPLIED ECONOMETRIC ANALYSIS I**

3 credits.

Introduction to the standard linear regression model with an emphasis on application issues. Includes statistical foundation, hypothesis testing, functional form, model selection and procedures for handling violations of model assumption..

**Requisites:** Intermed stats or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**A A E 637 – APPLIED ECONOMETRIC ANALYSIS II**

3 credits.

Extension of the standard regression model is the primary focus. Topics: nonlinear regression models, maximum likelihood estimation, panel data, simultaneous equations, linear and nonlinear systems, analysis of discrete choice, limited dependent variables. Empirical economic applications and policy analysis.

**Requisites:** AAE 636 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**A A E 641 – FOUNDATIONS OF AGRICULTURAL ECONOMICS**

3 credits.

Overview of the economic performance of agriculture in feeding the growing world population. Examines contemporary economic issues in the food sector, along with research methods used in their analysis. Covers production analysis, risk and uncertainty, food demand, market structure, policy and welfare analysis.

**Requisites:** AAE 635 and 636, or equivalent**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**A A E 642 – FOUNDATIONS OF DEVELOPMENT ECONOMICS**

3 credits.

An overview of development economics, covering both basic theory and empirical applications. Topics include economic growth, trade, measurement of poverty and inequality, human capital, agricultural household models, technology adoption, migration, credit, savings, insurance, infrastructure, and the environment.

**Requisites:** AAE 635 and 636, or equivalent**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**A A E 643 – FOUNDATIONS OF ENVIRONMENTAL AND NATURAL RESOURCE ECONOMICS**

3 credits.

Survey of historical topics and contemporary research questions in environmental and resource economics. Focus areas include foundational models of human/environment interaction, definition and evaluation of the suite of environmental policy instruments, measuring environmental costs and benefits, and examining natural resource use.

**Requisites:** AAE 635 and 636, or equivalent**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**A A E/ENVIR ST/F&W ECOL 652 – DECISION METHODS FOR NATURAL RESOURCE MANAGERS**

3-4 credits.

Applications of quantitative methods, including optimization and simulation, to the management of natural resources, especially forests.

**Requisites:** MATH 211 or equiv Comp Sci 132 or equiv**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Biological Sci. Counts toward the Natural Sci req Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**A A E/ECON/ENVIR ST/URB R PL 671 – ENERGY ECONOMICS**

3 credits.

The method, application, and limitations of traditional economic approaches to the study of energy problems. Topics include microeconomic foundations of energy demand and supply; optimal pricing and allocation of energy resources; energy market structure, conduct, and performance; macro linkages of energy and the economy; and the economics of regulatory and other public policy approaches to the social control of energy.

**Requisites:** (Senior standing and ECON 101 or AAE 215) or graduate standing**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**A A E 681 – SENIOR HONORS THESIS**

2-4 credits.

**Requisites:** Honors candidacy**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** No**Last Taught:** Fall 2009**A A E 682 – SENIOR HONORS THESIS**

2-4 credits.

Continuation of 681.

**Requisites:** Honors program candidacy AAE 681**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** No**Last Taught:** Spring 2010



**A A E 691 – SENIOR THESIS**

2 credits.

**Requisites:** Sr st and cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2014**A A E 692 – SENIOR THESIS**

2 credits.

**Requisites:** Consent of instructor**Repeatable for Credit:** No**Last Taught:** Spring 2015**A A E 699 – SPECIAL PROBLEMS**

1-4 credits.

**Requisites:** Sr st and cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**A A E 705 – APPLIED MICROECONOMICS**

3 credits.

Focuses on developing a conceptual as well as empirical analysis of microeconomic behavior, including production and consumption analysis, technical change, and investment. Emphasizes empirical applications of microeconomics, with implications for efficiency and welfare analysis.

**Requisites:** AAE 635 STAT/MATH 309 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2012**A A E 706 – APPLIED RISK ANALYSIS**

3 credits.

Conceptual empirical analysis of economic behavior under risk and its implications for management and policy decisions. Emphasis on economic applications to the agricultural and food sector.

**Requisites:** AAE 635**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**A A E/ECON 707 – INSTITUTIONAL ECONOMICS**

3 credits.

Comparative analysis of neoclassical and institutional economics, with emphasis on economic epistemology, agency theory, transaction costs, firms and markets, property rights, externalities, welfare economics, efficiency, and rules of social choice.

**Requisites:** AAE 635 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2010**A A E 729 – THE MICRODYNAMICS OF ENVIRONMENT AND DEVELOPMENT**

3 credits.

Explores the intersection of environmental and development economics using advanced theoretical and empirical models to examine rural conservation and development, technology adoption and diffusion, and the dynamics of investment behavior in the presence of imperfect capital markets.

**Requisites:** AAE 635 required, ECON 711 recommended**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2012**A A E 730 – FRONTIERS IN DEVELOPMENT ECONOMICS 1**

3 credits.

Theory and empirical evidence on growth and development in low-income countries. Topics may include: measurement of poverty and inequality, risk and insurance, social networks, technology adoption, education, corruption, institutions, and behavioral economics.

**Requisites:** ECON 709 and ECON 711**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**A A E 731 – FRONTIERS IN DEVELOPMENT ECONOMICS 2**

3 credits.

Theory and evidence on growth and development in emerging economies, with primary focus on globalization, trade, labor markets and human capital. We use open-economy general equilibrium models to examine welfare implications of global shocks and domestic economic policies.

**Requisites:** ECON 709 and ECON 711**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**A A E 732 – ECONOMICS OF DEVELOPMENT 3**

3 credits.

Theory and empirical evidence on growth and development in low-income countries. Course will emphasize microeconomics topics, including household and intra-household models, asset accumulation, risk and asymmetric information.

**Requisites:** Grad st in AAE or econ or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2009

**A A E 737 – APPLIED ECONOMETRIC ANALYSIS III**

3 credits.

Prepares students for their own empirical work by examining contemporary econometric techniques as they are used in development, environment and natural resources, and agricultural economics. Guides students through a selection of applied models using past and current research as examples. By hearing lectures and working through papers, problem sets, replication exercises, and/or research projects, students will develop a deeper understanding of the many facets of empirical research in economics.

**Requisites:** ECON 709 and 710**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**A A E 741 – ADVANCED POLICY ANALYSIS**

3 credits.

Economic efficiency and welfare at the micro and macro levels. Role of contracts and effects of policy instruments related to pricing and trade policy, under uncertainty. Role of technology and effects of globalization in developed and developing countries.

**Requisites:** ECON 711 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2011**A A E 746 – FRONTIERS IN AGRICULTURAL ECONOMICS 1**

3 credits.

Economics of agricultural technology innovation and adoption, properties and measurement of production and productivity, and impact evaluation. Empirical methods, including surveys, experiments, randomized trials, and instrumental variable methods of testing applied microeconomic models.

**Requisites:** ECON 709 and ECON 711**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**A A E/ECON 747 – FRONTIERS IN AGRICULTURAL ECONOMICS 2**

3 credits.

Organization, design, and performance of food and agricultural markets. Industrial organization; firm boundaries, contracting, and collective action; spatial, temporal, and quality dimensions of market design.

**Requisites:** ECON 709 and ECON 711**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2011**A A E 760 – FRONTIERS IN ENVIRONMENTAL AND NATURAL RESOURCE ECONOMICS 1**

3 credits.

Economic tools and principles pertaining to the optimal management of natural resources. Theoretical models characterize efficient resource use and predict management decisions under different institutional settings. Empirical applications relate to public and private management of forests, fish, wildlife, minerals, and energy resources. Examples highlight the importance of discount rates, property rights, and government policies.

**Requisites:** ECON 709 and ECON 711**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**A A E 762 – FRONTIERS IN ENVIRONMENTAL AND NATURAL RESOURCE ECONOMICS 2**

3 credits.

The role of markets and government in the allocation of environmental goods and services. Topics include public goods, externalities and market failure; policy instruments for dealing with environmental quality problems such as air pollution; and distributional impacts of environmental regulations.

**Requisites:** ECON 709 and ECON 711**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**A A E 770 – INTRODUCTION TO QUANTITATIVE METHODS IN RESOURCE AND ENERGY ECONOMICS**

3 credits.

The fundamental mathematics and statistics necessary for the study of quantitative methods in resource and energy demand. Topics include the mathematics of optimization and its role in basic welfare theory and consumer demand; linear and matrix algebra and their application in both modeling consumer behavior and the statistical analysis of models; and the fundamentals of statistical analysis relevant to econometric analysis of resource and energy demand, including probability theory, sampling distributions, and statistical inference.

**Requisites:** Enrollment in the Resource and Energy Demand Analysis Master's program, or Special Student status and consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017

**A A E 771 – MICROECONOMICS OF RESOURCES AND ENERGY: THEORY TO PRACTICE**

3 credits.

Applying economic theory to the practice of resource and energy demand analysis. Topics include consumer demand theory and the proper modeling of demand systems, theoretical underpinnings of behavioral economics, welfare theory, cost benefit analysis and cost-effectiveness analysis, and technology adoption and diffusion.

**Requisites:** Declared in the Resource and Energy Demand Analysis program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**A A E 772 – APPLIED ECONOMETRICS OF RESOURCE AND ENERGY DEMAND**

4 credits.

The estimation of the economic models of resource and energy demand, including evaluation of energy and resource programs, estimating demand systems in the study of dynamic pricing models, estimating discrete choice models, forecasting resource and energy demand from econometric models, and topics in the application of big-data analytics in resource and energy demand analysis.

**Requisites:** AAE 636, and enrollment in the Resource and Energy Demand Analysis Master's program, or Special Student status and consent of instructor.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**A A E 773 – SEMINAR IN RESOURCE AND ENERGY DEMAND ANALYSIS**

1-2 credits.

Current issues in resource and demand analysis, with presentations by academic researchers and industry professionals, to introduce students to current issues in resource and demand analysis, and to develop their critical thinking about addressing these issues.

**Requisites:** Declared in the Resource and Energy Demand Analysis program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**A A E 774 – PRACTICUM IN RESOURCE AND ENERGY DEMAND ANALYSIS I**

1 credit.

The first in a 2-course sequence that comprises the capstone course in Resource and Energy Demand Analysis, in which students synthesize their training in a simulated "real world" analysis. The course is designed to reflect the full range of professional responsibilities of a resource/energy demand analyst, from data retrieval/cleaning to analysis to reporting.

**Requisites:** AAE 771 and enrollment in the Resource and Energy Demand Analysis Master's program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**A A E 776 – PRACTICUM IN RESOURCE AND ENERGY DEMAND ANALYSIS II**

3 credits.

The second in a 2-course sequence that comprises the capstone course in Resource and Energy Demand Analysis, in which students synthesize their training in a simulated "real world" analysis. The courses is designed to reflect the full range of professional responsibilities of a resource/energy demand analyst, from data retrieval/cleaning, to analysis, to reporting.

**Requisites:** AAE 771 and enrollment in the Resource and Energy Demand Analysis Master's program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**A A E 777 – SURVEY AND SAMPLE DESIGN IN APPLIED ECONOMICS**

2 credits.

Teaches generation and use of survey data. Topics include identification of target population, random, stratified, cluster sampling, power analysis, survey collection implementation, retrospective and prospective surveys of respondent choice, experimental choice in survey design, and econometric modeling of respondent choices.

**Requisites:** Declared in the Resource and Energy Demand Analysis program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**A A E 780 – RESEARCH COLLOQUIUM**

3 credits.

For AAE Ph.D. students to develop a dissertation proposal. Working in groups and with some additional feedback from individual advisors. Developing research questions, literature search, word models, math models, testable hypotheses, identification strategies. Working with data, using LATEX, giving presentations. Peer review of weekly assignments. Developing cohort for subsequent feedback through dissertation writing and job search.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**A A E 799 – PRACTICUM IN AGRICULTURAL AND APPLIED ECONOMICS TEACHING**

1-3 credits.

Instructional orientation to teaching at the higher education level in the agricultural and life sciences, direct teaching experience under faculty supervision, experience in testing and evaluation of students, and the analysis of teaching performance.

**Requisites:** Grad st cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**A A E/POLI SCI 835 – GAME THEORY AND POLITICAL ANALYSIS**

3 credits.

An introduction to the tools of game theoretic analysis, with reference to the use of game theory in political science. Intended for those desiring a basic familiarity with the theory, and for those planning further work in formal modeling.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**A A E 875 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**A A E/ENVIR ST/POP HLTH/PUB AFFR 881 – BENEFIT-COST ANALYSIS**

3 credits.

This course will present the welfare economics underpinnings for evaluating the social benefits and costs of government activities. Issues such as uncertainty, the social discount rate, and welfare weights will be discussed; case studies from the environmental, social policy, and agricultural areas will be studied.

**Requisites:** Grad st, Pub Affr 818 880 or Pop Hlth 875 at least one crse in econ or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**A A E/ANTHRO/C&E SOC/GEOG/HISTORY/LACIS/POLI SCI/PORTUG/ SOC/SPANISH 982 – INTERDEPARTMENTAL SEMINAR IN THE LATIN-AMERICAN AREA**

1-3 credits.

Interdisciplinary inquiry in Latin American society and culture.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**A A E 990 – RESEARCH AND THESIS**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**A A E 999 – SPECIAL WORK - AGRICULTURAL AND APPLIED ECONOMICS**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## AGROECOLOGY (AGROECOL)

### AGROECOL/AGRONOMY/C&E SOC/ENTOM/ENVIR ST 103 – AGROECOLOGY: AN INTRODUCTION TO THE ECOLOGY OF FOOD AND AGRICULTURE

3 credits.

Agroecology has blossomed across the world in recent decades as not only a science, but also a practice, and a movement. This course will challenge students to employ the multiple disciplines and perspectives that Agroecology affords to analyze our agricultural and food systems within a broader context of dynamic social and ecological relationships.

**Requisites:** None

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### AGROECOL/AGRONOMY/DY SCI 371 – MANAGED GRAZING FIELD STUDY

1-2 credits.

This is a course for students who are interested in developing a comprehensive understanding of the principles, practices, and conservation potential of managed grazing systems, and how these farming systems may contribute to the sustainability and diverse tapestry of Wisconsin's working landscape. Students will visit managed grazing systems of successful grazing-based farmers (graziers) across southern/central counties in Wisconsin, and/or research sites at UW's Arlington and/or Lancaster Research Stations and/or the Discovery Farms Program. Students will have the opportunity to discuss at length with farm managers and researchers the practices in place at each farm and research site. Readings will be assigned and discussed. Students will be introduced to CALS/UWEX pasture forage/nutrient management planning and budgeting software. A course fee (expected to be approx. \$75-\$100/student) will be assessed to cover transportation between field sites and farmer-grazier cooperator honoraria.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### AGROECOL 400 – STUDY ABROAD IN AGROECOLOGY

1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. W.-Madison Study Abroad Program

**Requisites:** Current registration in a U.

**Repeatable for Credit:** Yes, unlimited number of completions

### AGROECOL 699 – SPECIAL PROBLEMS

1-3 credits.

Scholarship on special topics, under the supervision of an agroecology faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2013

### AGROECOL 701 – THE FARM AS SOCIO-ENVIRONMENTAL ENDEAVOR

3 credits.

Farms may be analyzed as intentional entities shaped by the contexts in which they must operate. This course explores how these biophysical and social contexts both exert constraints and provide opportunities, leading to the diversity of farms observed.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

### AGROECOL 702 – THE MULTIFUNCTIONALITY OF AGRICULTURE

3 credits.

Agroecology systems provide a variety of social, economic, and ecological functions to society, each with a different network of stakeholders. This course explores methods of evaluating these diverse functions and perspectives, with a special focus on participatory approaches.

**Requisites:** Cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### AGROECOL 710 – AGROECOLOGY SEMINAR

1 credit.

Weekly seminar on topics in agroecology.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### AGROECOL 720 – AGROECOLOGY FIELD STUDY

1-3 credits.

Field study of farms, processing, marketing, distribution, and policy-making in the food system. Courses will be several days of visits, discussions with the operators, and student-faculty discussion sections. Presentations or written reports may be required.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AGROECOL/AGRONOMY/ENVIR ST 724 – AGROECOSYSTEMS AND GLOBAL CHANGE**

3 credits.

Impacts of global change drivers (climate change, atmospheric chemistry, bioenergy, urbanization, policy) on agroecosystems and their associated goods and services; environmental impacts of agricultural land use and feedbacks to climate; modeling approaches; critical review of current scientific literature.

**Requisites:** Grad st; coursework in either college-level biology or ecology; 1 sem college-level chemistry or physics; or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AGROECOL 875 – TOPICS IN AGROECOLOGY**

1-3 credits.

This course number provides for opportunities to develop and test possible new courses, or to accommodate visiting scholars who may wish to offer a course.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**AGROECOL 990 – RESEARCH**

1-12 credits.

Independent research on the student's thesis or degree project.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**AGRONOMY (AGRONOMY)****AGRONOMY 1 – COOPERATIVE EDUCATION/CO-OP IN AGRONOMY**

1 credit.

Full-time off-campus work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career. Students receive credit only for the term in which they are actively enrolled and working. The same work experience may not count towards credit in AGRONOMY 399.

**Requisites:** So st, and consent of supervising instructor and academic advisor.

**Repeatable for Credit:** Yes, unlimited number of completions

**AGRONOMY 100 – PRINCIPLES AND PRACTICES IN CROP PRODUCTION**

4 credits.

Plant science applied to the growth, production, management, distribution and utilization of field crops.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AGRONOMY/AGROECOL/C&E SOC/ENTOM/ENVIR ST 103 – AGROECOLOGY: AN INTRODUCTION TO THE ECOLOGY OF FOOD AND AGRICULTURE**

3 credits.

Agroecology has blossomed across the world in recent decades as not only a science, but also a practice, and a movement. This course will challenge students to employ the multiple disciplines and perspectives that Agroecology affords to analyze our agricultural and food systems within a broader context of dynamic social and ecological relationships.

**Requisites:** None

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AGRONOMY/ENTOM/NUTR SCI 203 – INTRODUCTION TO GLOBAL HEALTH**

3 credits.

Introduces students to global health concepts through multidisciplinary speakers dedicated to improving health through their unique training. It targets students with an interest in public health and those who wish to learn how their field impacts their global issues.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AGRONOMY 289 – HONORS INDEPENDENT STUDY**

1-2 credits.

Inter-Ag 288

**Requisites:** Enrolled in the CALS Honors Program Sophomore or Junior standing.

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**AGRONOMY 299 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Open to Freshmen or Sophomore or Junior standing written consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017



**AGRONOMY 300 – CROPPING SYSTEMS**

3 credits.

Agronomic cropping systems of the Midwest: environmental impacts, productivity, and profitability. Cropping system diversification and sustainable agriculture. An agroecological approach, the application of ecological concepts and principles for the improvement of cropping systems is emphasized.

**Requisites:** AGRONOMY 100 or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**AGRONOMY 302 – FORAGE MANAGEMENT AND UTILIZATION**

3 credits.

Establishment, management, harvesting and utilization of forage crops for use as hay, pasture and silage. Emphasis on cool season perennial grasses and legumes.

**Requisites:** Jr st Agron 100 or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**AGRONOMY/HORT/SOIL SCI 326 – PLANT NUTRITION MANAGEMENT**

3 credits.

Functions, requirements and uptake of essential plant nutrients; chemical and microbial processes affecting nutrient availability; diagnosis of plant and soil nutrient status; fertilizers and efficient fertilizer use in different tillage systems.

**Requisites:** Soil Sci 230 or 301 and one of the following: Bot 100 or 130; HORT 120 or 122; Agron 100**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**AGRONOMY/HORT 328 – INTEGRATED WEED MANAGEMENT**

4 credits.

Prevalence and persistence of weeds, evaluation of competitive and allelopathic effects, methods and principles of control including proper identification of common weed species.

**Requisites:** Agron 100 or intro crse in botany or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2010**AGRONOMY/HORT 338 – PLANT BREEDING AND BIOTECHNOLOGY**

3 credits.

Principles of transferring plant genes by sexual, somatic, and molecular methods and the application of gene transfer in plant breeding and genetic engineering to improve crop plants.

**Requisites:** BOTANY/BIOLOGY 130 or Genetics 160 or Biocore 301 or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**AGRONOMY/BOTANY/HORT 339 – PLANT BIOTECHNOLOGY: PRINCIPLES AND TECHNIQUES I**

4 credits.

Theoretical and practical training in plant biotechnology including molecular biology, protein biochemistry and basic bioinformatic techniques used in fundamental and applied research on plants. Valuable hands-on training to those interested in careers in biotechnology.

**Requisites:** Bot/Zoo 152 or equiv CHEM 104 or equiv**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**AGRONOMY/BOTANY/HORT 340 – PLANT CELL CULTURE AND GENETIC ENGINEERING**

4 credits.

Theoretical and practical training in plant cell and tissue culture, and plant genetic engineering. Includes overview of current techniques, biosafety and regulatory requirements, and experimental design and analysis used in fundamental and applied research on plants. Valuable hands-on training to those interested in careers in biotechnology.

**Requisites:** BOTANY/BIOLOGY 130 or Botany/Zoology/BIOLOGY/BOTANY/ZOOLOGY 152 or ZOOLOGY/BIOLOGY 102, and Chemistry 104, 109, or 116**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**AGRONOMY/A A E/INTER-AG/NUTR SCI 350 – WORLD HUNGER AND MALNUTRITION**

3 credits.

Hunger and poverty in developing countries and the United States. Topics include: nutrition and health, population, food production and availability, and income distribution and employment.

**Requisites:** None**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**AGRONOMY/ENTOM/HORT/PL PATH/SOIL SCI 354 – DIAGNOSING AND MONITORING PEST AND NUTRIENT STATUS OF FIELD CROPS**

1 credit.

This course is designed to provide students with information necessary to diagnosis and monitor corn, soybean, alfalfa and wheat for pests (insects, weeds, diseases) and nutrient deficiency symptoms including perspectives from Agronomy, Entomology, Horticulture, Plant Pathology and Soil Science. Proper soil and pest sampling information will be provided as will proper crop staging techniques which are essential for pest and nutrient management.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Spring 2017**AGRONOMY/HORT 360 – GENETICALLY MODIFIED CROPS: SCIENCE, REGULATION & CONTROVERSY**

2 credits.

Explores how and why genetically modified (GM) crops are created and their regulation at the federal and state level. Through case studies, students will learn about the impacts of GM crops and critically evaluate arguments both for and against their use. Readings and discussion introduce students to the complex economic, cultural, and political issues surrounding GM crops.

**Requisites:** BIOLOGY/BOTANY/BIOLOGY 130, BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151, BIOCORE 381, BOTANY/GENETICS/ZOOLOGY 160, BOTANY/GENETICS/ZOOLOGY 466, or BIOLOGY/ZOOLOGY/BIOLOGY 101

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**AGRONOMY/BOTANY/SOIL SCI 370 – GRASSLAND ECOLOGY**

3 credits.

Understand factors driving global, continental, regional, and local distribution of grasslands. Discuss how management affects provision of grassland ecosystem goods and services. Compare and contrast plant community and ecosystem dynamics in native prairie and intensively managed pastures.

**Requisites:** Intro crse in Agronomy, Botany, or Soil Sci; or Bot/Zoo/Biol 151-152; or Biocore 301 or 333

**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**AGRONOMY/AGROECOL/DY SCI 371 – MANAGED GRAZING FIELD STUDY**

1-2 credits.

This is a course for students who are interested in developing a comprehensive understanding of the principles, practices, and conservation potential of managed grazing systems, and how these farming systems may contribute to the sustainability and diverse tapestry of Wisconsin's working landscape. Students will visit managed grazing systems of successful grazing-based farmers (graziers) across southern/central counties in Wisconsin, and/or research sites at UW's Arlington and/or Lancaster Research Stations and/or the Discovery Farms Program. Students will have the opportunity to discuss at length with farm managers and researchers the practices in place at each farm and research site. Readings will be assigned and discussed. Students will be introduced to CALS/UWEX pasture forage/nutrient management planning and budgeting software. A course fee (expected to be approx. \$75-\$100/student) will be assessed to cover transportation between field sites and farmer-grazier cooperator honoraria.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**AGRONOMY 375 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Cons inst**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**AGRONOMY 377 – CROPPING SYSTEMS OF THE TROPICS**

3 credits.

Crops and cropping systems of the tropics. The environmental requirements of the major crops, their botany, and how they fit into local farming systems will be emphasized. For students with broad interests in tropical agriculture and food production.

**Requisites:** Intro crse in botany or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**AGRONOMY 399 – COORDINATIVE INTERNSHIP/COOPERATIVE EDUCATION**

1-8 credits.

**Requisites:** Cons suprvg inst, advisor, intrshp prog coordinator**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**AGRONOMY 400 – STUDY ABROAD IN AGRONOMY**

1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. W.-Madison Study Abroad Program

**Requisites:** Current registration in a U.

**Repeatable for Credit:** Yes, unlimited number of completions

**AGRONOMY 500 – SENIOR CAPSTONE EXPERIENCE**

2 credits.

A stepping stone between the classroom and society. Emphasizes discussion and activities for enhancing integration of diverse bodies of knowledge, critical thinking, and effective written and oral communication.

**Requisites:** Sr st; AGRONOMY 399, 699, or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**AGRONOMY/HORT 501 – PRINCIPLES OF PLANT BREEDING**

3 credits.

Principles involved in breeding and maintaining economic crops; factors affecting the choice of breeding methods; alternative approaches through hybridization and selection.

**Requisites:** Intro crse in genetics, 1 yr biol

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**AGRONOMY/HORT 502 – TECHNIQUES OF PLANT BREEDING**

1 credit.

Lab and field techniques used in breeding and maintaining economic crops.

**Requisites:** An intro crse in genetics 1 yr of biology

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**AGRONOMY/ATM OCN/SOIL SCI 532 – ENVIRONMENTAL BIOPHYSICS**

3 credits.

Plant-environment interactions with particular reference to energy exchanges and water relations. Models are used to provide a quantitative synthesis of information from plant physiology, soil physics, and micrometeorology with some consideration of plant-pest interactions.

**Requisites:** Intro calc, PHYSICS 103, BOTANY/BIOLOGY 130 comp programng; or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**AGRONOMY/C&E SOC/MED HIST/PHILOS 565 – THE ETHICS OF MODERN BIOTECHNOLOGY**

3-4 credits.

Study of ethical issues arising from the application of modern biotechnology to microorganisms, crops, and non-human animals. Readings cover moral theory, technology studies, political philosophy, the science used in biotechnology, and current regulations governing its use.

**Requisites:** Junior standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**AGRONOMY/ENTOM/F&W ECOL/M&ENVTOX 632 – ECOTOXICOLOGY: THE CHEMICAL PLAYERS**

1 credit.

Introduction to natural and man-made toxins/toxicants, their distribution, transport, and fate in the environment. Includes lectures, current research presentations, and discussions.

**Requisites:** 2 sem intro biol 1 sem organic chem, or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AGRONOMY/ENTOM/F&W ECOL/M&ENVTOX 633 – ECOTOXICOLOGY: IMPACTS ON INDIVIDUALS**

1 credit.

Addresses absorption, biotransformation, elimination of toxins in a wide variety of taxa (plants, invertebrates, vertebrates), and includes lectures, current research presentations, and discussions.

**Requisites:** MEnvTox 632, or 2 sem intro biol MEnvtox 631, or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AGRONOMY/ENTOM/F&W ECOL/M&ENVTOX 634 – ECOTOXICOLOGY: IMPACTS ON POPULATIONS, COMMUNITIES AND ECOSYSTEMS**

1 credit.

Focuses on the impact of toxicants on populations, communities, ecosystems, and includes risk evaluation. Includes lectures, current research presentations, and discussions.

**Requisites:** MEnvTox 633, or MEnvTox 625, 626 631, or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AGRONOMY 681 – SENIOR HONORS THESIS**

2-4 credits.

**Requisites:** Hon progdm candidacy

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**AGRONOMY 682 – SENIOR HONORS THESIS**

2-4 credits.

Continuation of 681.

**Requisites:** Honors program candidacy AGRONOMY 681

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**AGRONOMY 699 – SPECIAL PROBLEMS**

1-4 credits.

Offered at Madison and the branch experiment stations.

**Requisites:** Sr st cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**AGRONOMY/AGROECOL/ENVIR ST 724 – AGROECOSYSTEMS AND GLOBAL CHANGE**

3 credits.

Impacts of global change drivers (climate change, atmospheric chemistry, bioenergy, urbanization, policy) on agroecosystems and their associated goods and services; environmental impacts of agricultural land use and feedbacks to climate; modeling approaches; critical review of current scientific literature.

**Requisites:** Grad st; coursework in either college-level biology or ecology; 1 sem college-level chemistry or physics; or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AGRONOMY 771 – EXPERIMENTAL DESIGNS**

1 credit.

Review of methods for controlling error in research experiments; review and in-depth development of factorial treatment designs; theory, analysis, and examples of advanced experimental designs for plant and animal research.

**Requisites:** STAT/F&W ECOL/HORT 571

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**AGRONOMY 772 – APPLICATIONS IN ANOVA**

1 credit.

Development of models, programs, inferences, and interpretations of analysis of variance in biological research; mixed vs. random effects models and their development; choosing the correct inference range; variance and covariance analyses; repeated measures; dealing with missing data; SAS programming.

**Requisites:** STAT/F&W ECOL/HORT 571

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**AGRONOMY 799 – PRACTICUM IN AGRONOMY TEACHING**

1-3 credits.

Instructional orientation to teaching at the higher education level in the agricultural and life sciences, direct teaching experience under faculty supervision, experience in testing and evaluation of students, and the analysis of teaching performance.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AGRONOMY/HORT 811 – BIOMETRICAL PROCEDURES IN PLANT BREEDING**

3 credits.

Use of statistical methods to facilitate improvements in quantitative traits of cultivated plants.

**Requisites:** Intro crses in genetics stat

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AGRONOMY/HORT 812 – SELECTION THEORY FOR QUANTITATIVE TRAITS IN PLANTS**

2 credits.

Discuss advanced topics in selection theory and the utilization of molecular markers in selection.

**Requisites:** AGRONOMY/HORT/AGRONOMY 811

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2006

**AGRONOMY/HORT 850 – ADVANCED PLANT BREEDING**

3 credits.

Concepts in improvement of major crop species. Historically important breeding methods and new approaches. Lectures and discussion.

**Requisites:** Agron/HORT/AGRONOMY 338 or 501 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**AGRONOMY 875 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**AGRONOMY 920 – SEMINAR**

1 credit.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**AGRONOMY/ATM OCN/BOTANY/ENTOM/ENVIR ST/F&W ECOL/GEOG/ZOOLOGY 953 – INTRODUCTION TO ECOLOGY RESEARCH AT UW-MADISON**

1-2 credits.

This seminar course will introduce new graduate students to the diversity of ecologists across the UW-Madison campus. Course meetings will include discussions of key topics in professional development, research presentations by faculty members, and discussions of assigned papers with senior graduate students.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AGRONOMY/GENETICS/HORT 957 – SEMINAR-PLANT BREEDING**

1 credit.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**AGRONOMY 990 – RESEARCH**

1-9 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**AIR FORCE AEROSPACE STUDIES (A F AERO)****A F AERO 101 – THE FOUNDATIONS OF THE UNITED STATES AIR FORCE I**

1 credit.

Introduces students to the Air Force Reserve Officer Training Corps. Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, and an introduction to communication skills. Leadership lab activities. Open to all students.

**Requisites:** Open to Freshmen

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**A F AERO 102 – THE FOUNDATIONS OF THE UNITED STATES AIR FORCE II**

1 credit.

Continuation of 101. Leadership lab activities. Open to all students.

**Requisites:** Open to Freshmen

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**A F AERO 201 – THE EVOLUTION OF US AIR AND SPACE POWER I**

1 credit.

Examines air and space power through a historical perspective. Covers a time period from the first balloons to the space-age global positioning system. Further develops communication skills. Leadership lab activities. Open to all students.

**Requisites:** Open to Fr

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**A F AERO 202 – THE EVOLUTION OF US AIR AND SPACE POWER II**

1 credit.

Continuation of 201. Leadership lab activities. Open to all students.

**Requisites:** Open to Fr

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**A F AERO 301 – LEADERSHIP STUDIES I**

3 credits.

Topics include leadership, management fundamentals, professional knowledge, personnel and evaluation systems. Includes leadership ethics and communication skills required of an Air Force junior officer. Case studies to exercise practical applications of the course content. Includes leadership lab activities.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**A F AERO 302 – LEADERSHIP STUDIES II**

3 credits.

Continuation of 303. Includes leadership lab activities.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**A F AERO 401 – NATIONAL SECURITY AFFAIRS**

3 credits.

Examines national security, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics include military as a profession, officership, military justice, civilian control, preparation for active duty, and current military issues. Final refinement of communication skills.

Includes leadership lab activities.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**A F AERO 402 – PREPARATION FOR ACTIVE DUTY**

3 credits.

Continuation of 401. Includes leadership lab activities.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

## AMERICAN INDIAN STUDIES (AMER IND)

**AMER IND 100 – INTRODUCTION TO AMERICAN INDIAN STUDIES**

3 credits.

Focus is history, social organization, political experience, artistic expression of North American Indians, using methods and materials from a number of disciplines as an introduction to the interdisciplinary field.

**Requisites:** Open to Fr

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AMER IND/ENGL 172 – LITERATURES OF NATIVE AMERICA**

3 credits.

Introduction to the oral and written literatures of the peoples of native North America. An engagement with texts across historical periods, tribal groups, and regions to examine forms such as oratory, sermon, testimony, autobiography, and contemporary poetry and novels.

**Requisites:** Open to Freshmen

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**AMER IND 199 – DIRECTED STUDY**

1-3 credits.

Independent study for freshmen and sophomores in collaboration with a faculty member.

**Requisites:** Open to Fr and So only; cons inst

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2009

**AMER IND/ENGL 246 – LITERATURE BY AMERICAN INDIAN WOMEN**

3 credits.

Presents a broad range of literatures from diverse Native traditions and eras, to provide students with a basic knowledge of major issues affecting and best-known texts by American Indian women authors.

**Requisites:** Open to Freshmen

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**AMER IND 250 – INDIANS OF WISCONSIN**

3 credits.

Introduces students to the various American Indian Nations within Wisconsin's borders with an emphasis on their history, culture, and sovereignty. Examines individual tribes and bands as well as common issues that affect tribal and non-tribal people in Wisconsin.

**Requisites:** Open to all undergraduates

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015



**AMER IND/ENGL 274 – INDIGENOUS LITERATURE OF THE GREAT LAKES**

3 credits.

A study of the literature and cultural expression of peoples indigenous to the Great Lakes of North America. Close critical examination of formal aesthetics, literary history, and contemporary issues in oral tradition, autobiography, drama, poetry, novel, and film.

**Requisites:** Open to Freshmen**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2009**AMER IND/ENGL 275 – AMERICAN INDIAN ORAL LITERATURES**

3 credits.

A study of American Indian oral literature including literature from Wisconsin tribes or from other regions such as Southwest or Great Plains. This course emphasizes Native American storytellers. Open to Freshmen

**Requisites:** 6 credits of introductory literature or consent of instructor.**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2011**AMER IND 301 – FIRST SEMESTER OJIBWE**

3 credits.

Introduction to the Ojibwe language, spoken and written, with emphasis on oral tradition and extensive study of grammar.

**Requisites:** Open to Fr**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Frng Lang - 1st semester language course

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**AMER IND 302 – SECOND SEMESTER OJIBWE**

3 credits.

Continuation of Ojibwe language study, with an emphasis on traditional winter cycle myths. Open to Fr

**Requisites:** Amer Ind 301.**Course Designation:** Breadth - Humanities

Frng Lang - 2nd semester language course

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**AMER IND/ANTHRO 314 – INDIANS OF NORTH AMERICA**

3 credits.

Description and analysis of native cultures, and the role of environmental and historical factors in North America.

**Requisites:** So st or cons inst**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**AMER IND 320 – NATIVE PEOPLES OF THE SOUTHWEST**

3 credits.

Overview of Indian Peoples and cultures of the "Southwest" from historic times to present, including discussion of contemporary issues impacting tribes in the southwestern United States.

**Requisites:** Open to all undergraduates**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**AMER IND 325 – AMERICAN INDIANS IN FILM**

3 credits.

A critical examination of the portrayal of the American Indian in film, including documentaries and films made by Native filmmakers.

**Requisites:** Amer Ind 100, Com Arts 350 or cons inst**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2014**AMER IND/ANTHRO 353 – INDIANS OF THE WESTERN GREAT LAKES**

3 credits.

Description and analysis of Indian cultures in the area around the western Great Lakes, with special emphasis on traditional cultures of the Indians in Wisconsin.

**Requisites:** ANTHRO 100, 104 or cons inst**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2012

**AMER IND/ANTHRO 354 – ARCHAEOLOGY OF WISCONSIN**  
3 credits.

Introduces students to the archaeological evidence for the diverse Native American cultures of Wisconsin over the past 12,000 years.

**Requisites:** Junior standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**AMER IND/ANTHRO 355 – ARCHAEOLOGY OF EASTERN NORTH AMERICA**  
3 credits.

Reviews the archaeological evidence pertaining to native North American lifeways of the eastern woodlands of North America from the earliest arrival of humans more than 12,000 years ago through sustained contact with Europeans.

**Requisites:** Jr st, ANTHRO 102 or 112, or cons inst

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**AMER IND/ART HIST 359 – AMERICAN INDIAN ART HISTORY: CONTEMPORARY ISSUES**  
3 credits.

A thematic introduction to contemporary (1960 - present) Native North American art drawing from historic (pre and post-contact) precedents. Topics are generated from the conceptual themes of contact, conflict, exchange, appropriation and re-appropriation of American Indian imagery, materials, and ideas.

**Requisites:** Open to Fr

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**AMER IND/LINGUIS 371 – SURVEY OF NORTH AMERICAN INDIAN LANGUAGES**  
3 credits.

Overview of native languages of North America, including topics such as history, distribution, diversity, government policy, language endangerment, elaboration of cultural domains, language and worldview, speech styles, language structure (phonology, morphology, grammatical categories), performance (narrative, song), writing systems.

**Requisites:** None

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**AMER IND 401 – OJIBWE LANGUAGE III**  
3 credits.

Represents the third semester of the Ojibwe language, focusing on word structure and conversational skills.

**Requisites:** AMER IND 302

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AMER IND 402 – OJIBWE LANGUAGE IV**  
3 credits.

Represents the fourth semester in the Ojibwe language, focusing on conversational skills.

**Requisites:** AMER IND 401

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**AMER IND/ANTHRO/FOLKLORE 431 – AMERICAN INDIAN FOLKLORE**  
3 credits.

An introduction to the genres of American Indian Folklore. Special attention is given to creation stories, trickster tales, and the relationship between folklore and historical memory.

**Requisites:** Junior standing and ANTHRO/AMER IND 314, ANTHRO/FOLKLORE/ANTHRO 344, FOLKLORE 100, FOLKLORE 230, or FOLKLORE 320

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**AMER IND/ANTHRO/FOLKLORE/GEN&WS 437 – AMERICAN INDIAN WOMEN**

3 credits.

Examines and interprets the roles of American Indian women in traditional societies, and in contemporary North America.

**Requisites:** 1 crse in Amer Ind St, ANTHRO/AMER IND 314 or Women St 223, 101, or 102

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**AMER IND/LSC 444 – NATIVE AMERICAN ENVIRONMENTAL ISSUES AND THE MEDIA**

3 credits.

Explores public understanding and media coverage of Native American environmental issues including treaty rights, air and water quality, land-into-trust, and sacred sites. Analysis of organizational and structural constraints of media coverage relating to issues of sovereignty and intergovernmental relationships.

**Requisites:** Sophomore standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**AMER IND 450 – ISSUES IN AMERICAN INDIAN STUDIES**

3 credits.

Content varies depending on instructor. Special focus on American Indian thought and perspectives on subjects in the arts and sciences.

**Requisites:** Consent of instructor

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**AMER IND/ENGL 467 – CONTEMPORARY AMERICAN INDIAN LITERATURE SINCE 1953**

3 credits.

A study of American Indian literary and cultural expression since 1953, the year of federal "termination" of Native nations and their subsequent revival. Close critical examination of historical and contemporary themes in autobiography, drama, poetry, and novel. Students who have taken English 650 prior to fall 2014 may not enroll in this course.

**Requisites:** English 172 or consent of instructor

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**AMER IND/ANTHRO/BOTANY 474 – ETHNOBOTANY**

3-4 credits.

Study of the interactions between human cultures and plants. Topics include: traditional resource management and agriculture; crop domestication, evolution, and conservation; archaeobotany; indigenous knowledge; folk taxonomy; plants in symbolism and religion; dietary patterns; phytochemistry; global movement of plants and peoples. g., BOTANY/BIOLOGY 130, BIOLOGY/BOTANY/ZOOLOGY 151) or cons inst

**Requisites:** A five credit course in botany or biology (e.

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Biological Science or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AMER IND/HISTORY 490 – AMERICAN INDIAN HISTORY**

3-4 credits.

**Requisites:** Jr st or cons inst

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**AMER IND/HDFS 522 – AMERICAN INDIAN FAMILIES**

3 credits.

Interdisciplinary examination of American Indian families in historical and contemporary contexts. Emphasizes the changing experience and structure of Native families in response to changing political, economic, social, and cultural pressures and policies over the past 200 years and contemporary challenges.

**Requisites:** Junior standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2014**AMER IND/C&E SOC/SOC 578 – POVERTY AND PLACE**

3 credits.

The allocation of economic and social rewards in the United States; emphasis on persistently poor regions and communities; analysis of selected minority groups and their poverty statuses; poverty programs and their consequences for structural and cultural changes.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/ C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/ C&E SOC 211)**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**AMER IND/SOC WORK 658 – AMERICAN INDIAN AFFAIRS**

2-3 credits.

Contemporary concerns and conditions of American Indians examined in historical, cultural and legal perspective.

**Requisites:** Jr st**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2012**AMER IND 699 – DIRECTED STUDY**

1-3 credits.

Independent study for junior, senior and graduate students in collaboration with a faculty member.

**Requisites:** Jr, Sr or Grad st, and cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**AMER IND/HISTORY 941 – INDIANS AND EMPIRES**

3 credits.

Examining the centuries of imperial competition in Native America, this seminar explores recent developments in early American Indian history.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**AMER IND/HISTORY 942 – AMERICAN INDIAN HISTORY, 1800-PRESENT**

3 credits.

A readings course on American Indian resistance, adaptation, and revival during the U.S. National period.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2009**ANATOMY (ANATOMY)****ANATOMY/KINES 328 – HUMAN ANATOMY**

3 credits.

Lectures. Structure of the human body.

**Requisites:** Admission to professional curric in nursing, pre-nursing, or pre-physician assistant program**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**ANATOMY/KINES 329 – HUMAN ANATOMY-KINESIOLOGY**

2 credits.

Required for dance-related majors. Open to Fr

**Requisites:** Kinesiology major; kinesiology majors must take ANATOMY/ KINES 328 prior to or concurrent with ANATOMY/KINES 329.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ANATOMY 429 – HUMAN ANATOMY LABORATORY FOR PHYSICIAN ASSISTANTS**

5 credits.

Prosected specimens and some supervised dissection.

**Requisites:** Admission to phy asst professional curric or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017

**ANATOMY/NTP/PHMCOL-M/PHYSIOL/PSYCH 611 – SYSTEMS NEUROSCIENCE**

4 credits.

Introduction to the anatomy and physiology of the mammalian nervous system. Lectures will cover the neuroanatomy of the major subdivisions of the human brain, the major sensory and motor systems, and higher order functions. Lab/discussion sections will emphasize readings from the primary literature and hands-on dissections.

**Requisites:** PHYSIOL/NTP/PHMCOL-M 610**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ANATOMY 622 – HUMAN ANATOMY-PHYSICAL THERAPY, OCCUPATIONAL THERAPY**

6 credits.

Gross human anatomy involving complete dissection of the human body. Special emphasis is placed on the musculoskeletal and peripheral nervous systems, and living subject and surface anatomy.

**Requisites:** Admission to phys or occ therapy professional program, or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2017**ANATOMY/NTP/PHYSIOL 625 – BRAIN CELL CULTURES AND IMAGING: A LAB COURSE**

4 credits.

Hands-on laboratory training in neuronal cell culture, live and fixed neuron labeling and microscopy techniques to visualize neurons in culture, as well as image analysis methods. Enrollment limited to 12 students, authorized by cons inst

**Requisites:** Intro crses in biochem, cell biology anatomy.**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** No**Last Taught:** Fall 2013**ANATOMY/NTP/PHYSIOL 630 – NEURONAL MECHANISMS FOR SENSATION AND MEMORY IN CEREBRAL CORTEX**

3 credits.

Current literature will be considered in lectures and discussions that provides insight into how the cerebral cortex processes sensory information to generate and store cogent representations of the external world. The course includes laboratory exercises and demonstrations.

**Requisites:** Intro neurosci crse highly recommended: Neurosci/Anat/Phmcol/PHYSIOL/ANATOMY/NTP/PHMCOL-M/PSYCH 611, Med Sc-M 731, Comp Bio 505, Zool/Neurosci/PSYCH/ZOOLOGY 523, Psych/Neurophy/Neurosci/Zool 524; or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ANATOMY 637 – FUNCTIONAL NEUROANATOMY**

3 credits.

For physical therapy and occupational therapy majors. Motor and sensory systems under normal and altered conditions.

**Requisites:** ANATOMY 622, with a grade of C or better, is a prerequisite for ANATOMY 637.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**ANATOMY/AN SCI 660 – ELECTRON MICROSCOPY: THEORY & PRACTICE**

3 credits.

**Requisites:** Cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2011**ANATOMY 675 – TOPICS IN ANATOMY**

1-3 credits.

Special topics in anatomy. See footnote in Timetable for specific topic.

**Requisites:** Vary according to topic**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ANATOMY 699 – INDEPENDENT STUDY**

1-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015

**ANATOMY 700 – CYTOSKELETAL DYNAMICS**

2 credits.

Course content is topical and current. The course covers such issues as microtubule dynamics, microtubule-associated proteins, microtubule-organizing centers, actin filaments, actin regulatory proteins, intermediate filaments, cell motility, mitosis, process outgrowth, and cell differentiation.

**Requisites:** Grad st or Sr with cons inst; ZOOLOGY 570 or equiv

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**ANATOMY/M M & I 710 – CELL STRUCTURE AND FUNCTION**

3 credits.

An interdisciplinary course that highlights structure and function at the cellular level as related to health and disease states.

**Requisites:** Declared in Medical program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**ANATOMY 711 – INTEGRATED MEDICAL ANATOMY**

4 credits.

Thorough progression in the dissection of the human body and in descriptive and functional human anatomy. Second semester only open to medical students.

**Requisites:** Declared in Medical program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ANATOMY/RADIOL 722 – CLINICAL ANATOMY AND RADIOLOGY**

4 credits.

Anatomy and surgery of head and neck, body wall, cavities and pelvic outlet. Hands on experience in interpreting radiological cross-sectional images.

**Requisites:** Anat 711, Sr Med or Grad st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ANATOMY/NTP/ZOOLOGY 765 – DEVELOPMENTAL NEUROSCIENCE**

3 credits.

Analysis of neural development with emphasis on experimental approaches. Combination of lectures and discussions of primary literature. Topics include neural induction, patterning, mechanisms of axon guidance, neural crest cell migration and differentiation, cortical development, and synapse formation and elimination.

**Requisites:** Grad st in biol sci; undergrads with cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ANATOMY 990 – RESEARCH AND THESIS**

1-9 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ANATOMY 999 – ADVANCED INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2011

**ANESTHESIOLOGY (ANESTHES)****ANESTHES 699 – INDEPENDENT STUDY**

9 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ANESTHES 812 – THIRD YEAR ANESTHESIA**

1-2 credits.

**Requisites:** 3rd yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ANESTHES 910 – LABORATORY RESEARCH IN ANESTHESIOLOGY-CSC**

1-4 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**ANESTHES 919 – INDIVIDUALIZED FOURTH YEAR CLINICAL CLERKSHIP**

1-12 credits.

Individually arranged fourth year clinical clerkships (student must have Fourth Year Committee approval to count for fourth year credit).

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017



**ANESTHES 920 – CLINICAL ANESTHESIA CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ANESTHES 921 – CLINICAL ANESTHESIA CLERKSHIP-LACROSSE**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**ANESTHES 930 – ADVANCED CARDIAC LIFE SUPPORT (ACLS)**

1 credit.

This course provides training and certification in advanced cardiac life support (ACLS). Students will learn to successfully manage the first ten minutes of cardiorespiratory emergencies. Students will practice their ACLS skills and be assessed in the human patient simulator lab.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ANESTHES 950 – ADVANCED ANESTHESIOLOGY WORKSHOP**

1 credit.

Focused workshop designed for graduating medical students matched into Anesthesiology. Activities include lectures, discussions, problem-based learning discussion (PBLD), simulation, hands-on workshops.

**Requisites:** Must have taken Anesthesiology 812, 920, 921, or 930.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ANIMAL SCIENCES (AN SCI)****AN SCI 1 – COOPERATIVE EDUCATION/CO-OP IN ANIMAL SCIENCES**

1 credit.

Full-time off-campus work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career. Students receive credit only for the term in which they are actively enrolled and working. The same work experience may not count towards credit in An Sci 399.

**Requisites:** So st, and consent of supervising instructor and academic advisor.**Repeatable for Credit:** No**Last Taught:** Fall 2015**AN SCI/DY SCI 101 – INTRODUCTION TO ANIMAL SCIENCES**

4 credits.

Anatomy physiology, nutrition, genetics, reproduction, marketing, meats and management of dairy and beef cattle, swine, sheep, poultry and horses; lectures, laboratories and discussion. Field trips.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**AN SCI 110 – ANIMAL HANDLING**

1 credit.

Hands-on course that gives students an understanding of livestock handling techniques, proper restraint, administering injections, and drawing blood samples. Students also learn about animal response to human presence and the effect of facility design on animal behavior.

**Requisites:** An Sci/Dy Sci 101**Repeatable for Credit:** No**Last Taught:** Spring 2017**AN SCI 150 – CAREER ORIENTATION ANIMAL/POULTRY SCIENCES**

1 credit.

An introduction to resume preparation, student employment, internships, and graduate and professional school programs with presentations by numerous graduates who discuss their career path following a B.S. degree in Animal Science or Poultry Science.

**Requisites:** AN SCI/DY SCI/AN SCI 101**Repeatable for Credit:** No**Last Taught:** Spring 2017**AN SCI 200 – THE BIOLOGY AND APPRECIATION OF COMPANION ANIMALS**

3 credits.

A systematic coverage of many of the animals (including birds) that humans keep as their social companions. The classification, nutritional requirements, environmental considerations, reproductive habits, health, legal aspects and economics of companion animals and their supportive organizations. Open to Fr

**Requisites:** Crse in zoo or equiv or cons inst.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**AN SCI 220 – GROWTH, COMPOSITION AND EVALUATION OF MEAT ANIMALS**

4 credits.

Principles and application of objective and subjective techniques for identifying quantitative and qualitative traits associated with breeding animals, market animals and meat. Statistics, growth, anatomy, genetics. Field trips to livestock farms and meat processing plants.

**Requisites:** An Sci/Dy Sci 101 or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**AN SCI 221 – ADVANCED MEAT ANIMAL EVALUATION LAB**

2 credits.

Review and practical application of subjects covered in Animal Sciences 220. Field trips to livestock farms, meat processing plants and to the National Meat Animal Evaluation Contest.

**Requisites:** An Sci 220 cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2017**AN SCI 250 – HORSE SCIENCE AND MANAGEMENT**

3 credits.

General principles. Emphasis on anatomy and physiology, management, behavior, reproduction, health, and nutrition. Lab period offers hands-on learning opportunities and short field trips. Mandatory field trip on a weekend day.

**Requisites:** Completion of Animal Sciences/Dairy Science 101 is required.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**AN SCI 289 – HONORS INDEPENDENT STUDY**

1-2 credits.

Inter-Ag 288

**Requisites:** Enrolled in the CALS Honors Program Sophomore or Junior standing.**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2007**AN SCI 299 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Open to Freshmen, Sophomore or Junior standing written consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**AN SCI/FOOD SCI 305 – INTRODUCTION TO MEAT SCIENCE AND TECHNOLOGY**

4 credits.

Application of biological, technological, and economical principles to muscle and related tissue utilized for food.

**Requisites:** Zoo 101102, or Zoo 151152, CHEM 103**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**AN SCI/DY SCI/NUTR SCI 311 – COMPARATIVE ANIMAL NUTRITION**

3 credits.

Nutrients and their source, assimilation, function and requirement.

**Requisites:** BmolChem 314 or CHEM 341 or CHEM 343 or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**AN SCI/DY SCI 313 – ANIMAL FEEDS AND DIET FORMULATION**

1 credit.

Designed as a companion course for Dairy Science 311 (comparative animal nutrition) with emphasis on quantitative and practical aspects of animal feeds and diet formulation.

**Requisites:** MATH 112, Dy Sci/An Sci 101, or consent of instructor; concurrent registration in Dy Sci/An Sci/Nutr Sci 311 recommended**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**AN SCI 314 – POULTRY NUTRITION**

3 credits.

Provides a conceptual understanding of nutrient requirements for optimal growth and production of commercial poultry species. The use of computer programming for feed formulation is emphasized. Field trips are planned.

**Requisites:** An Sci/Dy Sci 101 or Poul Sci 101**Repeatable for Credit:** No**Last Taught:** Summer 2017**AN SCI 315 – POULTRY ENTERPRISE MANAGEMENT**

3 credits.

Fundamental business and economic principles and practices for successful poultry production with emphasis on problem solving in flock management. Software application core programs will be Microsoft Office for Windows suite. Open to Freshmen

**Requisites:** An Sci/Dy Sci 101 or Poul Sci 101, Ag Econ 215 or ECON 101 or equivalent.**Repeatable for Credit:** No**Last Taught:** Summer 2017

**AN SCI/DY SCI 320 – ANIMAL HEALTH AND DISEASE MANAGEMENT**

3 credits.

Principal causes and identification of animal diseases, common diseases of farm animals, zoonoses and public health, disease prevention and management including biosecurity measures and host immune responses.

**Requisites:** ZOOLOGY/BIOLOGY 101/102, BIOLOGY/BOTANY/ZOOLOGY 152, Biocore or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**AN SCI/FOOD SCI 321 – FOOD LAWS AND REGULATIONS**

1 credit.

Food laws and regulations, regulatory and commercial grading standards used in the food industry.

**Requisites:** Jr st or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**AN SCI/DY SCI 361 – INTRODUCTION TO ANIMAL AND VETERINARY GENETICS**

2 credits.

The molecular basis for inheritance of monogenic and polygenic traits related to animal disease and production. An introduction to the principles of improving animal health and performance by selection and mating systems in companion animals, horses, livestock, and poultry.

**Requisites:** Genetics 160 or 466 or con reg course in statistics

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**AN SCI/DY SCI 362 – VETERINARY GENETICS**

2 credits.

The genetic basis for predisposition to disease or resistance to disease in livestock and companion animal species. Genetic defects, their discovery, diagnosis and treatment.

**Requisites:** Dy Sci/An Sci 361; or Genetics 160 or 466 Zool/Bot 152

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**AN SCI/DY SCI 363 – PRINCIPLES OF ANIMAL BREEDING**

2 credits.

Application of the principles of quantitative genetics to the improvement of livestock and poultry; breeding value estimation and selection techniques; effects of inbreeding and hybrid vigor; crossbreeding systems.

**Requisites:** Dy Sci/An Sci 361

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**AN SCI/DY SCI 370 – LIVESTOCK PRODUCTION AND HEALTH IN AGRICULTURAL DEVELOPMENT**

3 credits.

Physical, biological and social nature of animal agriculture systems and their improvement in developing countries; analysis of the state of livestock research and development in the developing countries and the world role of U.S. animal agriculture.

**Requisites:** An Sci/Dy Sci 101 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AN SCI/DY SCI 373 – ANIMAL PHYSIOLOGY**

3 credits.

Students will develop an understanding of physiological processes that regulate the body, learn the anatomy and function of different physiological systems, describe interactions between organ systems, study regulation of an organ system from the molecular to whole animal level, and identify differences between species in the same systems.

**Requisites:** Biology/ZOOLOGY/BIOLOGY 101 or (Biology/Zoology/BOTANY/BIOLOGY/ZOOLOGY 151 and Biology/Zoology/BOTANY/BIOLOGY/ZOOLOGY 152)

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**AN SCI 375 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Cons inst

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**AN SCI 399 – COORDINATIVE INTERNSHIP/COOPERATIVE EDUCATION**

1-8 credits.

**Requisites:** So or Jr or Sr st cons of supervising inst, advisor, and internship program coordinator

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**AN SCI 400 – STUDY ABROAD IN ANIMAL SCIENCES**

1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. W.-Madison Study Abroad Program

**Requisites:** Current registration in a U.

**Repeatable for Credit:** Yes, unlimited number of completions

**AN SCI/DY SCI 414 – RUMINANT NUTRITION**

2 credits.

Integrates basic nutrition concepts and ration balancing skills by teaching students to balance and troubleshoot rations for various domesticated ruminants. An Sci/Dy Sci 313 is recommended.

**Requisites:** AN SCI/DY SCI/NUTR SCI/AN SCI/DY SCI 311**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**AN SCI 415 – APPLICATION OF MONOGASTRIC NUTRITION PRINCIPLES**

2 credits.

Nutrient requirements for growth and production of monogastric animals. Discuss concepts of establishing nutrient requirements and feeding strategies. Laboratory exercises are designed to develop problem solving skills required for the assessment of nutritional adequacy and economical soundness of feeding programs.

**Requisites:** An Sci/Dy Sci 311 313**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**AN SCI 430 – SHEEP PRODUCTION**

3 credits.

Application of recent research in breeding, feeding, health, and management to develop an efficient sheep production system. Includes an active, hands-on laboratory working with sheep. Prior completion of AN SCI/DY SCI/AN SCI 313 highly recommended.

**Requisites:** AN SCI/DY SCI/NUTR SCI/AN SCI/DY SCI 311, AN SCI/DY SCI/AN SCI 361, or AN SCI/DY SCI/AN SCI 434**Repeatable for Credit:** No**Last Taught:** Spring 2016**AN SCI 431 – BEEF CATTLE PRODUCTION**

3 credits.

Application of genetics, systems of mating, physiology, nutrition and economics to the production of beef. Prior completion of AN SCI/DY SCI/AN SCI 313 highly recommended.

**Requisites:** AN SCI/DY SCI/NUTR SCI/AN SCI/DY SCI 311, AN SCI/DY SCI/AN SCI 361, or AN SCI/DY SCI/AN SCI 434**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**AN SCI 432 – SWINE PRODUCTION**

3 credits.

Application of research findings in breeding, feeding, management and marketing to modernize production. Lab: Farm visits, practical exercises in testing changes, "tools" used by producers. Prior completion of AN SCI/DY SCI/AN SCI 313 highly recommended.

**Requisites:** AN SCI/DY SCI/NUTR SCI/AN SCI/DY SCI 311, AN SCI/DY SCI/AN SCI 361, or AN SCI/DY SCI/AN SCI 434**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**AN SCI 433 – EQUINE BUSINESS & MANAGEMENT**

3 credits.

Application of diseases, health care, feeding, exercise physiology and business management relevant to horse industry. Students will develop problem solving skills and be exposed to equine businesses.

**Requisites:** AnSci 250, AnSci 311, AnSci 361/362 or 363, and AnSci 434**Repeatable for Credit:** No**Last Taught:** Spring 2016**AN SCI/DY SCI 434 – REPRODUCTIVE PHYSIOLOGY**

3 credits.

Principles of reproductive physiology, improvement of fertility, and artificial insemination.

**Requisites:** Jr st, An Sci/Dy Sci 101, or Zool 101 102; Zool 151 152 recommended**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**AN SCI 435 – ANIMAL SCIENCES PROSEMINAR**

2 credits.

Methods of assessing information quality are studied. Each student develops an analytical and critical seminar on a topic of personal interest in the animal sciences.

**Requisites:** Sr st**Repeatable for Credit:** No**Last Taught:** Fall 2017

**AN SCI 444 – LABORATORY TECHNIQUES IN MAMMALIAN GAMETE AND EMBRYO BIOLOGY**

3 credits.

This course is designed as an immersion experience based on the gradual release methodology of information delivery. Students are engaged in active/process learning whereby the principles and themes presented in the lecture portion of the course are immediately put into practice in the laboratory component of the course. Expected learning outcomes and learning objectives are therefore integrated into each lecture and laboratory. Each subsequent learning objective builds upon the knowledge acquired from the previous learning objective thus developing a scaffold or framework from which to proceed. This course will present students with challenges from cognitive and affective domains as they process information from both biological and ethical perspectives. Problem solving and conflict resolution skills will be displayed as students challenge themselves with the development of fine motor/coordination based skills as well as understanding that the product of their efforts has the potential to result in a live offspring. The bovine (cow/bull) will serve as our model in this performance-based course as students are expected to demonstrate competency in the nuances and complexities associated with the production of embryos in a completely artificial (in vitro) environment. The student will be expected to demonstrate critical thinking by developing a simulated professional enterprise involving one or more of the assisted reproductive technologies they are exposed to. Students will demonstrate proficiency in and competency of in vitro maturation, fertilization, embryo development, cell culture, sterile bench technique, synchronization of the female estrus cycle, embryo transfer, non-surgical embryo recovery and cryopreservation by completing 2 complete cycles of embryo production in vitro. Students work in teams of 3-4 individuals. During the first production cycle students will perform all tasks while observing and working alongside of the instructor. The second production cycle will require the students to perform independently (of the instructor) who will only intervene in the event that the actions of the student will be lethal to the process and/or outcome. Each week (Monday) students will be presented with a controversial subject or topic related to cellular biology and/or reproduction. These ethical dilemmas are almost entirely within the realm of human assisted reproduction. Using any means and/or media desired, students are required to formulate responses in favor and in opposition of said topic. Each Friday, following the course quiz, students will be randomly selected to defend one side of the argument by articulating their viewpoint from the assigned perspective even if it is not their personal opinion. The objective of this exercise is to demonstrate the nature and influence bioethics may have on policy decisions impacting future research endeavors and/or science based initiatives. As well, students will grapple with representing a viewpoint they may be in personal conflict with.

**Requisites:** Animal Sciences 434 or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**AN SCI/DY SCI/ENVIR ST/SOIL SCI 468 – MANAGING THE ENVIRONMENTAL IMPACTS OF LIVESTOCK OPERATIONS**

2 credits.

Introduces nonpoint pollution policies and regulations and environmental losses impacting air and water quality. Discuss management practices that influence the cycling and balance of nitrogen and phosphorus across a farm and its components (livestock, crop and soil).

**Requisites:** Junior standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2013**AN SCI/DY SCI/FOOD SCI/SOIL SCI 472 – ANIMAL AGRICULTURE AND GLOBAL SUSTAINABLE DEVELOPMENT**

1 credit.

This course examines issues related to global agriculture and healthy sustainable development. Using a regional approach and focusing on crops and livestock case studies, students will learn the interdependence between US agriculture and agriculture in emerging economies.

Some topics covered include population and food, immigration, the environment; crop and livestock agriculture; global trade; sustainability; food security, the role of women in agriculture, and the role of dairy products in a healthy diet.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Spring 2017**AN SCI/DY SCI/FOOD SCI/SOIL SCI 473 – INTERNATIONAL FIELD STUDY IN ANIMAL AGRICULTURE AND SUSTAINABLE DEVELOPMENT**

2 credits.

This course is the field study component to DY SCI/AN SCI/FOOD SCI/SOIL SCI 472, which examines issues related to global agriculture and healthy sustainable development. Using a regional approach and focusing on crops and livestock case studies, students will learn the interdependence between US agriculture and agriculture in emerging economies. Some topics covered include population and food, immigration, the environment; crop and livestock agriculture; global trade; sustainability; and the role of women in agriculture and the role of dairy products in a healthy diet.

**Requisites:** DY SCI/AN SCI/FOOD SCI/SOIL SCI 472**Repeatable for Credit:** No**AN SCI 503 – AVIAN PHYSIOLOGY**

3 credits.

Principles of organ and system function with emphasis on male and female reproduction, embryonic development and factors affecting hatchability.

**Requisites:** An Sci/Dy Sci 101 or consent of instructor**Repeatable for Credit:** No**Last Taught:** Summer 2017



**AN SCI 508 – POULTRY PRODUCTS TECHNOLOGY**

3 credits.

Procurement, processing and distribution of poultry meat, eggs and derived products; factors affecting quality, including methods of determining quality.

**Requisites:** Cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**AN SCI 511 – BREEDER FLOCK AND HATCHERY MANAGEMENT**

3 credits.

History of artificial incubation relevant to the U.S. hatching industry. Practices involved in successful incubation of hatching eggs. Embryonic development in birds. Management factors involved in breeder hen production and operating a hatchery.

**Requisites:** An Sci/Dy Sci 101 Zool 101 102 or Zool 151 or equiv**Repeatable for Credit:** No**Last Taught:** Summer 2017**AN SCI 512 – MANAGEMENT FOR AVIAN HEALTH**

3 credits.

The occurrence, etiology, clinical signs, control and prevention of infectious and noninfectious diseases commonly affecting domestically reared poultry. Instruction in avian necropsy, zoonosis, sanitation and regulation.

**Requisites:** An Sci/Dy Sci 101 Zool 101 102 or Zool 151 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**AN SCI/FOOD SCI 515 – COMMERCIAL MEAT PROCESSING**

2 credits.

Principles and procedures in the commercial manufacture of processed meat products; sausage manufacturing, curing, smoking, freezing and packaging. Zool 101 102, or Zool 151 152 (recommended); CHEM 103

**Requisites:** An Sci 305 or Food Sci 410 or cons inst.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**AN SCI/F&W ECOL/ZOOLOGY 520 – ORNITHOLOGY**

3 credits.

Introduction to bird biology, ecology, and behavior. Topics include the evolutionary origin of birds and flight, anatomy and physiology, functional morphology, migration, communication, reproductive strategies, ecological adaptations and roles, and biogeographical patterns.

**Requisites:** BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102, BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151 and 152 or BIOCORE 381 and 382**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**AN SCI/F&W ECOL/ZOOLOGY 521 – BIRDS OF SOUTHERN WISCONSIN**

3 credits.

Outdoor and indoor labs/lectures emphasizing identification of southern Wisconsin birds by sight and vocalization. Two required Saturday field trips in Southern Wisconsin.

**Requisites:** BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102, BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151 and 152 or BIOCORE 381 and 382**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**AN SCI/GENETICS 610 – QUANTITATIVE GENETICS**

3 credits.

An advanced approach with emphasis on statistical foundations. Classical theory with extensions to maternal and paternal effects. Selection theory is considered in depth.

**Requisites:** GENETICS 466 and Statistics 572 or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**AN SCI/NUTR SCI 626 – EXPERIMENTAL DIET DESIGN**

1 credit.

Discuss nutrient requirements, composition of ingredients used to meet requirements and the mathematical steps involved in diet formulation with emphasis on research animals and human subjects.

**Requisites:** Graduate student; Stats 301 or equivalent Nutr Sci 510 or concurrent enrollment or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017



**AN SCI/ANATOMY 660 – ELECTRON MICROSCOPY: THEORY & PRACTICE**

3 credits.

**Requisites:** Cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2011

**AN SCI 681 – SENIOR HONOR THESIS**

2-4 credits.

**Requisites:** Honors program candidacy

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AN SCI 682 – SENIOR HONORS THESIS**

2-4 credits.

Continuation of 681.

**Requisites:** Honors program candidacy An Sci 681

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**AN SCI 691 – THESIS**

2 credits.

**Requisites:** Sr st cons inst

**Repeatable for Credit:** No

**AN SCI 692 – THESIS**

2 credits.

**Requisites:** Consent of instructor

**Repeatable for Credit:** No

**AN SCI 699 – SPECIAL PROBLEMS**

1-3 credits.

**Requisites:** Sr st and cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**AN SCI/FOOD SCI 710 – CHEMISTRY OF THE FOOD LIPIDS**

2 credits.

Chemical constitution, structures, reactions, stereochemistry of fats, phospholipids, related compounds; methods of isolation, characterization; synthesis; relation of structure to physical properties.

**Requisites:** BIOCHEM 601; CHEM 341 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AN SCI 799 – PRACTICUM IN ANIMAL SCIENCES TEACHING**

1-3 credits.

Instructional orientation to teaching at the higher education level in the agricultural and life sciences, direct teaching experience under faculty supervision, experience in testing and evaluation of students, and the analysis of teaching performance.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AN SCI/DY SCI 824 – RUMINANT NUTRITIONAL PHYSIOLOGY I**

4 credits.

Focuses on rumen microbiology, metabolite modeling, as well as protein and VFA nutrition and metabolism. Students should have undergraduate coursework in ruminant nutrition, biochemistry, and microbiology as background.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AN SCI/GENETICS/POP HLTH 849 – GENETIC EPIDEMIOLOGY**

3 credits.

This course will provide an introduction to genetic epidemiology. Topics will include a general overview of genetics and Mendelian and complex inheritance, as well as various elements of study design, including participant ascertainment; phenotype definition; biologic sample selection; genotyping, sequencing, and quality control; measurement of covariates, and choice of analytic methods. We will briefly discuss some of the original study designs and then focus on current study designs for the remainder of the class. Additional emerging topics will be briefly touched upon. Students will complete short homework assignments to enforce concepts learned during lectures, discuss journal articles, and prepare a very short grant application for the mid-term project. In the final weeks of class, students will work together to analyze data from a real genetic study, prepare tables, interpret the findings, and present their project to their peers.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AN SCI 875 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**AN SCI/DY SCI 931 – SEMINAR IN ANIMAL NUTRITION**

1 credit.

Discussion of literature that has a bearing on animal nutrition. Students are to survey the literature and present a seminar.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**AN SCI/DY SCI 950 – SEMINAR IN ANIMAL GENOMICS**

1 credit.

Study of current literature in gene mapping, study designs, and application of markers in genetic improvement programs.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2009

**AN SCI/DY SCI/GENETICS 951 – SEMINAR IN ANIMAL BREEDING**

1 credit.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**AN SCI/OBS&GYN/ZOOLOGY 954 – SEMINAR IN ENDOCRINOLOGY-REPRODUCTIVE PHYSIOLOGY**

1 credit.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**AN SCI 990 – RESEARCH**

1-12 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ANTHROPOLOGY (ANTHRO)****ANTHRO 100 – GENERAL ANTHROPOLOGY**

3 credits.

General understanding of humans in relation to cultures, evolutionary development and racial diversity, capacities for society, and the development of the world's major cultures. Not open to stdts with a prior coll anthro crse

**Requisites:** Open to Fr.

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ANTHRO 102 – ARCHAEOLOGY AND THE PREHISTORIC WORLD**

3 credits.

Introduction to prehistoric world from origins of human culture to the beginnings of written history as revealed by archaeological research at great sites and ruins around the globe. Archaeological analyses of famous prehistoric sites as case studies to illustrate concepts and techniques used by archaeologists in their efforts to understand the rise, florescence, and demise of vanished societies.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ANTHRO 104 – CULTURAL ANTHROPOLOGY AND HUMAN DIVERSITY**

3 credits.

Introduction to cultural anthropology for non-majors; comparative cross-cultural consideration of social organization, economics, politics, language, religion, ecology, gender, and cultural change. Includes 25% coverage of U.S. ethnic and racial minorities. Not for cr for those who have taken Anthro 204

**Requisites:** Open to Fr.

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ANTHRO 105 – PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY**

3 credits.

Genetic basis of morphological, physiological and behavioral variations within and between human populations, and their origins and evolution.

**Requisites:** Open to Fr with HS biology or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ANTHRO 120 – FRESHMAN/SOPHOMORE SEMINAR IN ANTHROPOLOGY**

3 credits.

Intensive study of a problem in human variability through study of nontechnical materials. Emphasis on acquiring anthropological concepts through discussion and direct experience of ethnographic, archaeological, or human physical evidence.

**Requisites:** Open to Fr**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO/FOLKLORE/INTL ST/LINGUIS 211 – GLOBAL LANGUAGE ISSUES**

4 credits.

A series of modules, each showcasing one language and its culture. Each module tackles a major issue about language, such as extinction and revival, language and nationhood, how widely and deeply languages differ, language and worldview, writing systems and literacy, language discrimination and inequality.

**Requisites:** Open to Fr**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ANTHRO 212 – PRINCIPLES OF ARCHAEOLOGY**

3 credits.

This course introduces students to the methods, historical development, and scientific principles of archaeology. Through a combination of lecture, discussion, and laboratory activities, students discover how archaeologists generate and interpret information about the human past. The course familiarizes students with scientific inquiry and provides a foundation for pursuing advanced archaeological courses and field research.

**Requisites:** Open to All Undergrads**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO/MED HIST 231 – INTRODUCTION TO SOCIAL MEDICINE**

3 credits.

This interdisciplinary course will provide students with analytical tools for the critical examination of the social, cultural, political and economic determinants of health conditions and medical practice. We will pay special attention to how these factors determine how patients and providers experience and ideate disease and treatment, and how they respond to specific health care policies. The course will make emphasis on the important role that conditions of structural violence and inequality play as determinants of health conditions in a globalized world.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO 237 – CUT 'N' MIX: MUSIC, RACE, AND CULTURE IN THE CARIBBEAN**

3 credits.

Explores the history and culture of the Caribbean by focusing on its musics, both religious and secular. Special attention will be directed to the impact of colonialism on the emergence of racially stratified societies. Music will also enable us to investigate the concepts of diaspora and creolization. Other topics include: gender and sexuality, the role of technology in the production and distribution of music, music and politics, the impact of tourism, and the global impact of Caribbean musics.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ANTHRO/AFROAMER/C&E SOC/GEOG/HISTORY/LACIS/POLI SCI/SOC/SPANISH 260 – LATIN AMERICA: AN INTRODUCTION**

3-4 credits.

Latin American culture and society from an interdisciplinary perspective; historical developments from pre-Columbian times to the present; political movements; economic problems; social change; ecology in tropical Latin America; legal systems; literature and the arts; cultural contrasts involving the US and Latin America; land reform; labor movements; capitalism, socialism, imperialism; mass media.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**ANTHRO/ART HIST/DS/HISTORY/LAND ARC 264 – DIMENSIONS OF MATERIAL CULTURE**

4 credits.

This course introduces students to the interdisciplinary field of material culture studies. It is intended for students interested in any professional endeavor related to material culture, including careers in museums, galleries, historical societies, historic preservation organizations, and academic institutions. During the semester, students have varied opportunities to engage with and contemplate the material world to which people give meaning and which, in turn, influences their lives. Sessions combine in some way the following: presentations from faculty members and professionals who lecture on a phase of material culture related to his/her own scholarship or other professional work; discussion of foundational readings in the field; visits to collections and sites on campus and around Madison; discussion of readings assigned by visiting presenters or the professors; and exams and short papers that engage material culture topics.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO 265 – INTRODUCTION TO CULTURE AND HEALTH**

3 credits.

Uses the conceptual tools of anthropology to explore how culture, biology, and power together shape the ways people are born, experience good and poor health, seek therapeutic aid, and die. Readings and lectures will draw on material from around the world, with a particular focus on the experience of marginalized minority people in the United States.

**Requisites:** None**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**ANTHRO/AFRICAN/AFROAMER/GEOG/HISTORY/POLI SCI/SOC 277 – AFRICA: AN INTRODUCTORY SURVEY**

4 credits.

African society and culture, polity and economy in multidisciplinary perspectives from prehistory and ancient kingdoms through the colonial period to contemporary developments, including modern nationalism, economic development and changing social structure.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO 300 – CULTURAL ANTHROPOLOGY: THEORY AND ETHNOGRAPHY**

3 credits.

Survey of cultural anthropology with emphasis on ethnographic description, methodology, and contemporary theory. Course focuses on both humanistic and social scientific approaches to human sociocultural diversity.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO/LINGUIS 301 – INTRODUCTION TO LINGUISTICS: DESCRIPTIVE AND THEORETICAL**

3 credits.

Elementary theory and practical work in phonetics, phonology, morphology, and syntax, with attention to formal grammar. Stdts may not receive cr for both LINGUIS 101 301

**Requisites:** Open to Fr.**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO 302 – HOMINOID EVOLUTION**

3 credits.

The evolution of the Hominoidea is reconstructed from direct and indirect evidence. Cladistic and phylogenetic analyses are used to study the relationships among species. Interpretations of the fossil record are presented from a historical perspective, focusing on the hominoid-hominid transition.

**Requisites:** ANTHRO 105 or 107**Course Designation:** Breadth - Either Biological Science or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**ANTHRO 303 – HUMAN SKELETAL ANATOMY**

4 credits.

A comprehensive examination of skeletal anatomy at both the gross and histologic levels; methods for the archaeological identification of skeletal fragments; criteria for the estimation of age, sex, stature, and other aspects of forensic anthropology. Lecture and lab.

**Requisites:** ANTHRO 105, 107, or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ANTHRO 304 – HEREDITY, ENVIRONMENT AND HUMAN POPULATIONS**

3 credits.

Cultural and ecological factors influencing the composition and structure of human population; expression and distribution of genetic characters within and between populations; racial differences, race formations; constitutional studies, mating systems and their genetic consequences.

**Requisites:** Cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2011**ANTHRO 307 – URBAN ANTHROPOLOGY**

3 credits.

An integrated anthropological view of the city and urbanization as a human and cultural phenomenon, including major theories and concrete data from both 'first', 'second' and 'third' worlds, emphasizing the continuity of urban development from the first cities until now.

**Requisites:** ANTHRO 104 or 204 or cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**ANTHRO 309 – PREHISTORIC EUROPE**

3 credits.

European prehistory from the earliest evidence of human occupation up to the threshold of the Classical Greek and Roman civilizations.

**Requisites:** Anthro 112 or 321 or Jr st or cons inst**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2011**ANTHRO 310 – TOPICS IN ARCHAEOLOGY**

3 credits.

Selected areas, periods or problems in archaeology.

**Requisites:** Variable**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ANTHRO 311 – ARCHAEOLOGICAL CHEMISTRY**

3 credits.

Introduction to laboratory analysis with particular reference to artifactual and non-artifactual remains. Lectures cover methods and interpretation of results; laboratory involves application of methods to archaeological materials.

**Requisites:** Cons inst**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2012**ANTHRO/AMER IND 314 – INDIANS OF NORTH AMERICA**

3 credits.

Description and analysis of native cultures, and the role of environmental and historical factors in North America.

**Requisites:** So st or cons inst**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ANTHRO 321 – THE EMERGENCE OF HUMAN CULTURE**

3 credits.

Worldwide archaeological evidence for the development of human culture and behavior from the earliest appearance of human groups to the threshold of the agricultural revolution.

**Requisites:** Prior crse in archaeology, So st, or cons inst**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO 322 – THE ORIGINS OF CIVILIZATION**

3 credits.

Global archaeological survey of the origins of pristine civilizations beginning with the development of food production and ending with the emergence of the world's first civilizations. Focus of attention: Near East, Egypt, the Indus Valley, North China, Mesoamerica, and Peru.

**Requisites:** ANTHRO 112 or 321**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**ANTHRO 327 – PEOPLES OF THE ANDES TODAY**

3 credits.

Modern Quechua and Aymara-speaking peoples in Ecuador, Peru, and Bolivia: high-altitude herding and farming; Andean models for social organization; land-centered belief and ritual; ethnic discrimination and responses to it; transformations of the Andean cultures in urban and mining settings.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2011**ANTHRO 330 – TOPICS IN ETHNOLOGY**

3-4 credits.

Content varies. Some representative topics: peoples and cultures of the European part of the USSR, peoples and cultures of Soviet Asia, anthropology of space and time, anthropology and history, pastoralists and pastoral Nomads, American Indian folklore, etc.

**Requisites:** Intro crse in cult anthro or cons inst**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ANTHRO 333 – PREHISTORY OF AFRICA**

3 credits.

A survey of the archaeological record of human development in Africa, beginning over two million years ago and continuing through the transition to farming and metallurgy; greatest emphasis on the stone age portion of prehistory.

**Requisites:** Anthro 112 or 321 or cons inst**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ANTHRO 340 – MUSIC, RACE, AND CULTURE IN BRAZIL**

3 credits.

Focuses on music's significant role in the formation and maintenance of Brazilian national identity. Students will learn how a variety of Brazilian individuals, groups, and institutions have contributed to popular and scholarly debates about Brazilian culture, identity, and forms of belonging. These discussions will be anchored to important themes in Brazil's recent history, present, and imagined future, such as cultural cannibalism (antropofagia), and racial hybridity (mestiçagem). Students will also gain insight into how Brazilian artists and their audiences have debated race and racism through expressive means by analyzing a variety of anthropological and ethnomusicological texts about Brazilian popular music, literature, and its most famous annual ritual, Carnival.

**Requisites:** Sophomore standing or ANTHRO 100 or ANTHRO 104**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ANTHRO/RELIG ST 343 – ANTHROPOLOGY OF RELIGION**

3-4 credits.

Anthropological approaches. Illustrated by critical considerations of outstanding contributions. Selected religious systems; areal and topical comparative studies; religion as an ethnographic problem.

**Requisites:** ANTHRO 104 or cons inst**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ANTHRO/FOLKLORE 344 – ANTHROPOLOGICAL APPROACHES TO FOLKLORE**

3 credits.

Folklore as cultural process. Reviews interdisciplinary history of theories and methods, examining folklore in terms of genres, performance, cultural construction of gendered identities, sociology of knowledge, domination and resistance. Involves field collections. Enrollment limited to 25.

**Requisites:** Introductory Cultural Course required: ANTHRO 100, 104, or 204**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2009



**ANTHRO 345 – FAMILY, KIN AND COMMUNITY IN ANTHROPOLOGICAL PERSPECTIVE**

3 credits.

Comparison of the form and function of such social institutions as marriage and the family, age and sex groups, secret societies, task groups, and class in cross-cultural perspective.

**Requisites:** ANTHRO 104 or cons inst**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ANTHRO 348 – ECONOMIC ANTHROPOLOGY**

3-4 credits.

Production, distribution and consumption in nonliterate societies; land tenure and personal property concepts, prestige systems, and incentives to labor.

**Requisites:** ANTHRO 104 or cons inst**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ANTHRO 350 – POLITICAL ANTHROPOLOGY**

3-4 credits.

Comparison and analysis of political structures, behavior and processes among selected peoples of the world; special emphasis on leadership, authority, power, and the origins of the states; the relevance of primitive political systems to anthropological theory and to the comparative study of politics.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**ANTHRO 352 – ANCIENT TECHNOLOGY AND INVENTION**

3 credits.

The origins and development of early technologies. Impact of key prehistoric and pre-industrial inventions on the course of human evolution.

**Requisites:** Intro archaeol crse or cons inst**Course Designation:** Gen Ed - Communication Part B

Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2017**ANTHRO/AMER IND 353 – INDIANS OF THE WESTERN GREAT LAKES**

3 credits.

Description and analysis of Indian cultures in the area around the western Great Lakes, with special emphasis on traditional cultures of the Indians in Wisconsin.

**Requisites:** ANTHRO 100, 104 or cons inst**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2012**ANTHRO/AMER IND 354 – ARCHAEOLOGY OF WISCONSIN**

3 credits.

Introduces students to the archaeological evidence for the diverse Native American cultures of Wisconsin over the past 12,000 years.

**Requisites:** Junior standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2011**ANTHRO/AMER IND 355 – ARCHAEOLOGY OF EASTERN NORTH AMERICA**

3 credits.

Reviews the archaeological evidence pertaining to native North American lifeways of the eastern woodlands of North America from the earliest arrival of humans more than 12,000 years ago through sustained contact with Europeans.

**Requisites:** Jr st, ANTHRO 102 or 112, or cons inst**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2009**ANTHRO 357 – INTRODUCTION TO THE ANTHROPOLOGY OF JAPAN**

3-4 credits.

Japanese culture from anthropological perspectives. Emphasis on the order of meaning which serves both as model for and model of the day-to-day behavior and thought processes of the Japanese.

**Requisites:** Jr st**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ANTHRO 358 – ANTHROPOLOGY OF CHINA**

3 credits.

Topics of immediate concern to the field of anthropology and Chinese studies. Focus on social and cultural changes in rural, urban, as well as ethnic minority settings in post-1949 China.

**Requisites:** So st or cons inst**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2013**ANTHRO/LACIS 361 – ELEMENTARY QUECHUA**

4 credits.

Phonology and morphology; concentration on the acquisition of conversational skills; reading of texts of graded difficulty; three hours classroom and one hour lab.

**Requisites:** Open to Fr**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO/LACIS 362 – ELEMENTARY QUECHUA**

4 credits.

Continuation of 361. Open to Fr

**Requisites:** ANTHRO/LACIS 361 or cons inst.**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ANTHRO/LACIS 363 – INTERMEDIATE QUECHUA**

4 credits.

Advanced morphology and syntax; advanced conversation and composition; cultural background of Quechua speaking peoples through reading of myths, legends and folktales.

**Requisites:** ANTHRO/LACIS/ANTHRO 362**Course Designation:** Frgn Lang - 3rd semester language course

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO/LACIS 364 – ADVANCED QUECHUA**

4 credits.

Continuation of advanced conversation and composition; cultural background of Quechua-speaking peoples through reading of myths, legends, folktales; problems in dialectology.

**Requisites:** ANTHRO/LACIS 363 or cons inst**Course Designation:** Frgn Lang - 4th semester language course

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ANTHRO 365 – MEDICAL ANTHROPOLOGY**

3 credits.

The ecology of health and disease in human cultures; health-related social systems and behavior cross-culturally; practical implications of medical anthropology for improving the health of specific populations.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2016**ANTHRO 369 – PEOPLES AND CULTURES OF CENTRAL AND EASTERN EUROPE**

3-4 credits.

The course will provide the students with the basic information and a body of ethnographic/cultural/historical data on a variety of peoples of Central and Eastern Europe.

**Requisites:** Jr, Sr, or Grad st, or cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2009**ANTHRO 370 – FIELD COURSE IN ARCHAEOLOGY**

3-6 credits.

An introduction to the techniques of field archaeology, including site survey, mapping, and excavation by participation in an actual archaeological field project. Also instruction in the description and analysis of artifacts. The site(s) excavated vary each year. Normally, residence off campus beyond commuting distance to Madison. At least 5 full work days per week usually required.

**Requisites:** ANTHRO 102 or 112 or 321 cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2017

**ANTHRO/JEWISH/RELIG ST 372 – JEWS OF CENTRAL AND EASTERN EUROPE**

3-4 credits.

Course will focus on main characteristics of Central and Eastern European Jews (Ashkenazim) in their cultural-historical development.

Open to Fr with cons inst

**Requisites:** So st or cons inst.**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2008**ANTHRO/LACIS 376 – FIRST SEMESTER YUCATEC MAYA**

4 credits.

Introduction to Yucatec Maya language. Focus on acquiring vocabulary and grammar for basic conversational proficiency. Taught through in-class oral and aural exercises, language tapes, and primary texts. Students also learn about Maya culture, history, folklore, and language politics.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Frgn Lang - 1st semester language course

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO/LACIS 377 – SECOND SEMESTER YUCATEC MAYA**

4 credits.

Continued introduction to Yucatec Maya language. Focus on acquiring vocabulary and grammar for basic conversational proficiency. Taught through in-class oral and aural exercises, language tapes, and primary texts. Students also learn about Maya culture, history, folklore, and language politics. Open to Fr

**Requisites:** ANTHRO/LACIS 376.**Course Designation:** Breadth - Humanities

Frgn Lang - 2nd semester language course

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ANTHRO 391 – BONES FOR THE ARCHAEOLOGIST**

3 credits.

An introduction to the principles and techniques in the identification and interpretation of animal bones. Short lectures and weekly laboratory exercises; analysis of an archaeological bone assemblage.

**Requisites:** Intro archaeol crse or cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO/BOTANY/ZOOLOGY 410 – EVOLUTIONARY BIOLOGY**

3 credits.

Evolutionary biology, emphasizing how modern scientists study evolution. Topics include: nature and mechanisms of microevolution, macroevolution, adaptation, speciation; systematics and taxonomy; quantitative genetics and measurement of natural selection; phylogenetic analyses of behavior, physiology, morphology, biochemistry; current controversies in evolution.

**Requisites:** An elem course in zool or botany So st; Genetics/Botany/Zool 160 or 466 recommended**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO 411 – THE EVOLUTION OF THE GENUS, HOMO**

3 credits.

Course will focus on the course of human evolution beginning with the Pliocene appearance of our genus, Homo, and ending with the worldwide spread of modern Homo sapiens sapiens throughout the Old World.

**Requisites:** ANTHRO 105, or 107, or 302, or cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO 420 – INTRODUCTION TO PRIMATOLOGICAL RESEARCH**

3 credits.

Supervised research on topics selected by students. Students will work independently or in small groups, will design their own research project, collect data, and will report their findings. This course intends to develop the skills necessary for independent research in Primatology.

**Requisites:** ANTHRO 100, 105, 458, 668, or PSYCH 450**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**ANTHRO 424 – HISTORICAL ANTHROPOLOGY**

3 credits.

An introduction to historical approaches in anthropology: topics covered include early theories, evolutionism, ethnohistory, culture change, ritual and symbolic transformation, indigenous/oral histories, conceptions of time and the analysis of texts and visual images.

**Requisites:** So st**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2011

**ANTHRO/LCA/LINGUIS 430 – LANGUAGE AND CULTURE**

3-4 credits.

The relationship of language as a communication system to the culture transmitted by it. Principle problems in the interrelations of language and nonlinguistic human behavior.

**Requisites:** So st or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ANTHRO/AMER IND/FOLKLORE 431 – AMERICAN INDIAN FOLKLORE**

3 credits.

An introduction to the genres of American Indian Folklore. Special attention is given to creation stories, trickster tales, and the relationship between folklore and historical memory.

**Requisites:** Junior standing and ANTHRO/AMER IND 314, ANTHRO/FOLKLORE/ANTHRO 344, FOLKLORE 100, FOLKLORE 230, or FOLKLORE 320**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**ANTHRO/AMER IND/FOLKLORE/GEN&WS 437 – AMERICAN INDIAN WOMEN**

3 credits.

Examines and interprets the roles of American Indian women in traditional societies, and in contemporary North America.

**Requisites:** 1 crse in Amer Ind St, ANTHRO/AMER IND 314 or Women St 223, 101, or 102**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**ANTHRO 440 – INTRODUCTION TO ANTHROPOLOGICAL RESEARCH**

3 credits.

Supervised research on topics selected by students. Working independently or in small groups, students investigate problems in depth and report their conclusions.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 1979**ANTHRO/GEN&WS 443 – ANTHROPOLOGY BY WOMEN**

3 credits.

Contributions of women anthropologists to feminist and anthropological theories and research methods. Field research and gender. Current debates in women's studies and anthropology in light of recent research on women and gender in cross-cultural perspective.

**Requisites:** So st; one women st crse or one anthro crse or cons inst**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**ANTHRO 448 – ANTHROPOLOGY OF LAW**

3 credits.

A comparative examination of the legal realm of tribal and peasant societies as seen in cross-cultural perspective. Describes the relationship of law to anthropology, presents theories of change of legal systems and provides ethnographic case studies.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**ANTHRO 453 – STUDY ABROAD: TOPICS IN ARCHAEOLOGY**

1-6 credits.

A course carried with a UW-Madison study abroad program which has no equivalent on this campus.

**Requisites:** Current reg with a UW-Madison study abroad progm**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ANTHRO 454 – STUDY ABROAD: TOPICS IN BIOLOGICAL ANTHROPOLOGY**

1-6 credits.

A course carried with a UW-Madison study abroad program which has no equivalent on this campus.

**Requisites:** Current reg with a UW-Madison study abroad progm**Course Designation:** Breadth - Either Biological Science or Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2006**ANTHRO 455 – STUDY ABROAD: TOPICS IN CULTURAL ANTHROPOLOGY**

1-6 credits.

A course carried with a UW-Madison study abroad program which has no equivalent on this campus.

**Requisites:** Current reg with a UW-Madison study abroad progm**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017

**ANTHRO 456 – SYMBOLIC ANTHROPOLOGY**

3-4 credits.

The study of society through the analysis of symbolic systems. Myth, cosmology, ritual, political symbolism, the symbolic study of kinship, symbols and social change.

**Requisites:** Jr st ANTHRO 104 or cons inst**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO 458 – PRIMATE BEHAVIORAL ECOLOGY**

3 credits.

Primate behavior examined from an evolutionary and ecological perspective, focusing on adaptations to the social and nonsocial environment. Topics include: nepotism, reciprocity, competition, cooperation, and sex differences; the ecological role of primates in their communities is discussed.

**Requisites:** ANTHRO 105, 107, or equiv, or cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ANTHRO 460 – THE ANTHROPOLOGY OF DANCE: MOVEMENT AND MUSIC IN PERFORMANCE**

3 credits.

Explores the significance of movements, sounds, and the body in the transmission of knowledge, the formation of cultural communities, and the expression of identity. Offers first-hand practical experience of the ethnographic study of dance and movements.

**Requisites:** Junior standing**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**ANTHRO/LCA 462 – ANTHROPOLOGY OF SOUTH ASIA**

3 credits.

Examines dominant intellectual paradigms informing anthropology of South Asia. Topics include debates on caste, kinship, socialization, religions, applied anthropology. Primary focus India but students may write research paper on any South Asian country.

**Requisites:** Junior standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2008**ANTHRO/AMER IND/BOTANY 474 – ETHNOBOTANY**

3-4 credits.

Study of the interactions between human cultures and plants. Topics include: traditional resource management and agriculture; crop domestication, evolution, and conservation; archaeobotany; indigenous knowledge; folk taxonomy; plants in symbolism and religion; dietary patterns; phytochemistry; global movement of plants and peoples. g., BOTANY/BIOLOGY 130, BIOLOGY/BOTANY/ZOOLOGY 151) or cons inst

**Requisites:** A five credit course in botany or biology (e.**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Biological Science or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO 477 – ANTHROPOLOGY, ENVIRONMENT, AND DEVELOPMENT**

3 credits.

Identifies and examines cultural and environmental factors which should be taken into account in planning effective development. Case studies of development programs in less developed countries. Possible contributions of anthropologists and environmental scientists in planning, implementing, and evaluating development programs.

**Requisites:** An intro course in anthro or envir st or cons inst**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO 490 – UNDERGRADUATE SEMINAR**

3 credits.

Discussion and preparation of reports on specific topics indicated by changing title of seminar. Not open to Grad stdts; intro crse appropriate to the topic

**Requisites:** Jr st and cons inst.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ANTHRO/FOLKLORE 520 – ETHNIC REPRESENTATIONS IN WISCONSIN**

4 credits.

Representation and self-representation of ethnic cultures in Wisconsin. For example: museums, mass media, ethnic theater. Involves field work and/or archival research.

**Requisites:** ANTHRO 300 or Folklore 200 or cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2008



**ANTHRO/FOLKLORE/MUSIC/THEATRE 539 – THE FOLKLORE OF FESTIVALS AND CELEBRATIONS**

3 credits.

Survey of interdisciplinary literature on social/performative folklore aesthetics and environments by in-depth study of three festivals and ceremonies. Required field trips.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2014**ANTHRO 545 – PSYCHOLOGICAL ANTHROPOLOGY**

3 credits.

Survey of psychologically oriented approaches in cultural anthropology: ethnopsychiatry, the ethnography of emotion, conceptions of the self, cognitive development, and culturally defined deviance and mental illness.

**Requisites:** Junior standing**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ANTHRO/ED POL 570 – ANTHROPOLOGY AND EDUCATION**

3 credits.

The current and historical relation of anthropology to education with particular reference to culture contact and social change, cultural perspectives on education and educational systems, learning as cultural transmission, and application of anthropological knowledge to curriculum.

**Requisites:** Junior standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO 601 – PROSEMINAR IN BIOLOGICAL ANTHROPOLOGY**

3 credits.

A comprehensive overview of the major theoretical developments and debates in biological anthropology. Topics include the concept of adaptation, molecular and population genetics, the fossil record, and the interaction between genes, social behavior and culture.

**Requisites:** ANTHRO 105 or 107 or cons inst; Jr, Sr, or Grad st**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**ANTHRO 603 – SEMINAR IN EVOLUTIONARY THEORY**

3 credits.

Evolutionary theory relevant to human evolution including morphological, behavioral and genetical aspects.

**Requisites:** Cons inst instruction in morphology, heredity, stat**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ANTHRO 604 – SEMINAR: TOPICS IN PHYSICAL ANTHROPOLOGY OF THE LIVING**

3 credits.

Theory and practice of techniques in measurement and description of human variation. Topics change. When the topic warrants, lab sessions.

Cons inst.

**Requisites:** Grad st cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2011**ANTHRO 605 – SEMINAR-CURRENT PROBLEMS IN PALEOANTHROPOLOGY**

3 credits.

Research with attention on the evolutionary biology of hominids.

**Requisites:** Cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**ANTHRO 606 – ETHNICITY, NATIONS, AND NATIONALISM**

3-4 credits.

Analytical treatment of current anthropological approaches to the study of ethnicity, nation, and nationalism accompanied by case studies.

**Requisites:** Sr or Grad st or cons inst**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017



**ANTHRO/NTP/PSYCH/ZOOLOGY 619 – BIOLOGY OF MIND**

3 credits.

Origins and structures of mind, brain, and consciousness. Transitions from early mammalian through primate to hominid intelligence. Genetics and plasticity in brain development. Modern studies of human brain mechanisms and consciousness.

**Requisites:** Jr st; college level elem crse in biology or psych**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2012**ANTHRO 632 – LINGUISTIC ANTHROPOLOGY**

3 credits.

Ethnological analysis of linguistic systems and linguistic approaches to sociocultural systems including: ethnopoetics; folk biology; ethnography of speaking, discourse and pragmatics; semiotic interpretation of social behavior; cultural reconstruction for linguistic data.

**Requisites:** Intro crse in linguistics or anthro, or cons inst, or grad st**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 1984**ANTHRO/FOLKLORE 639 – FIELD SCHOOL: ETHNOGRAPHY OF WISCONSIN FESTIVALS**

6-8 credits.

A review of key methodological and theoretical approaches for studying festivals, in situ observation of summer festivals and small town folk and ethnic museums, and supervised writing and photographic assignments.

**Requisites:** Cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2011**ANTHRO 641 – THE EVOLUTION OF HUMAN DIET**

3-4 credits.

Diet as constrained by nutritional requirements throughout primate and human evolution. Topics covered: primate diets as models, diets of our primate and human ancestors, early agriculturalists, and modern gatherer-hunters.

**Requisites:** ANTHRO 105 or 107 or cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2008**ANTHRO 658 – ECOLOGICAL MODELS OF BEHAVIOR**

3 credits.

Examines the theoretical assumptions and empirical development of optimality models in behavioral ecology and social evolution, and applies these models to the evolution of body size and life history variables, foraging, social organization, cognition, and reproductive strategies.

**Requisites:** Jr, Sr, or Grad st or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2011**ANTHRO/RELIG ST 666 – THE ANTHROPOLOGY OF SHAMANISM AND OCCULT EXPERIENCE**

3 credits.

Shamanism is a global form of religious practice involving direct contact with the spirit world through ecstatic and magical techniques. This course examines shamanic practice and considers allied forms of occult experience outside of the major world religions.

**Requisites:** So st**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2011**ANTHRO 668 – PRIMATE CONSERVATION**

3 credits.

Evaluates the conservation status of non-human primates, and considers why different species are vulnerable to different kinds of threats. The ways in which regional and global conservation policies are developed and implemented will also be discussed.

**Requisites:** ANTHRO 458 or PSYCH 450 or ENVIR ST/FW ECOL/ZOOLOGY/ENVIR ST/F&W ECOL 360 or ANTHRO/BOTANY/ZOOLOGY/ANTHRO/BOTANY 410 or BOTANY/FW ECOL/ZOOLOGY/BOTANY/F&W ECOL 460**Course Designation:** Breadth - Either Biological Science or Social Science  
Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO 677 – PUBLIC MONUMENTS AND SYMBOLS**

3 credits.

Focus on public monuments and symbols as a means through which the citizens of the modern state are socialized and common identities are changed, as well as on their role in social and cultural change.

**Requisites:** Jr st or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2008

**ANTHRO 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ANTHRO 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ANTHRO 690 – PROBLEMS IN ANTHROPOLOGY**

3-4 credits.

Independent research in specific problems in physical anthropology, archaeology, or cultural anthropology; under supervision.

**Requisites:** Cons inst or Jr or Sr major or Grad st**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**ANTHRO 691 – SENIOR THESIS**

2 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ANTHRO 692 – SENIOR THESIS**

2 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO 696 – ARCHAEOLOGICAL METHODS OF CURATION**

1-3 credits.

Practicum in the curation of prehistoric stone, bone, and ceramics. Involves handling materials, identification of artifacts, conservation techniques, preparation of materials for storage or display.

**Requisites:** Prior coursework in archaeology and cons instr**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ANTHRO 698 – DIRECTED STUDY**

1-6 credits.

Graded on a Cr/N basis. Previous or con exposure to the same subj on an intmed level; requires cons inst

**Requisites:** Jr or Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2017**ANTHRO 699 – DIRECTED STUDY**

1-6 credits.

Letter graded.

**Requisites:** Previous or con exposure to the same subj on an intmed level, Jr or Sr st cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ANTHRO/ART HIST/DS/HISTORY/LAND ARC 764 – DIMENSIONS OF MATERIAL CULTURE**

4 credits.

This course introduces students to the interdisciplinary field of material culture studies. It is intended for students interested in any professional endeavor related to material culture, including careers in museums, galleries, historical societies, historic preservation organizations, and academic institutions. During the semester, students have varied opportunities to engage with and contemplate the material world to which people give meaning and which, in turn, influences their lives. Sessions combine in some way the following: presentations from faculty members and professionals who lecture on a phase of material culture related to his/her own scholarship or other professional work; discussion of foundational readings in the field; visits to collections and sites on campus and around Madison; discussion of readings assigned by visiting presenters or the professors; and exams and short papers that engage material culture topics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO/HISTORY 774 – METHODS FOR HISTORICAL RESEARCH IN NON-LITERATE SOCIETIES**

3 credits.

Techniques and critical analysis applied to written, oral, archaeological, linguistic and cultural data. Stresses problems of synthesis. Exercises.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2012

**ANTHRO 860 – HISTORY OF ANTHROPOLOGICAL THEORY**

3 credits.

Intellectual history of the major theoretical debates and key figures in cultural anthropology up to the 1960's.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO 900 – FUNDAMENTALS OF ANTHROPOLOGICAL THEORY**

3 credits.

Seminar introducing students to fundamentals of anthropological thought using a cross-section of basic works in social science. Emphasizes discussion, critical analysis, and development of professional writing skills.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ANTHRO/PSYCH 906 – METHODS AND HYPOTHESIS-TESTING FOR BEHAVIORAL ECOLOGISTS**

1-3 credits.

A detailed overview of field methods for behavioral ecologists, focusing specifically on behavioral and ecological sampling techniques. It addresses the challenging process of situating an empirical study within the context of theoretical paradigms.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2013**ANTHRO 909 – RESEARCH METHODS AND RESEARCH DESIGN IN CULTURAL ANTHROPOLOGY**

3 credits.

Theoretical and practical aspects of ethnographic research; history of field research in anthropology; research design issues; writing proposals; the fieldwork experience; methods of field data collection; ethical issues; data interpretation and analysis; writing ethnography.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ANTHRO 917 – GLOBALIZATION AND TRANSNATIONAL CULTURES**

3 credits.

Reviewing the current state of anthropological studies of globalization and examining various approaches taken to the subject. Focusing on works that conceptualize and theorize the transnational culture and ethnographies that represent and explore its multiplicity and complexity.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**ANTHRO 919 – ANTHROPOLOGY AND INTERNATIONAL HEALTH**

2 credits.

Examination of international health issues from the theoretical and methodological perspectives of anthropology. Course includes case studies of applied medical anthropology work as well as critical analysis of development initiatives in public health.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**ANTHRO/GEN&WS 920 – ANTHROPOLOGY OF GENDER**

3 credits.

Theoretical and ethnographic approaches to the anthropology of gender, focusing on current works. Topics include sexual inequality, research methods, gender and history, gender and ethnographic writing, cultural constructions of masculinity, sexuality, and gender studies and anthropological theory.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**ANTHRO/C&E SOC/ECON/SOC 925 – SEMINAR: SOCIO-ECONOMIC CHANGE IN UNDERDEVELOPED AREAS**

2-3 credits.

Social and economic factors relating to stability, growth, and change in the non-Western areas of the contemporary world.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ANTHRO 940 – SEMINAR-PROBLEMS IN CULTURAL ANTHROPOLOGY**

3 credits.

Current anthropological literature and methods. Assigned problems.

**Requisites:** Grad st or Sr st with permission cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015

**ANTHRO 942 – SEMINAR-ARCHAEOLOGICAL PROBLEMS**

3 credits.

Current literature and methods and work on assigned problems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ANTHRO/ED POL 970 – SEMINAR IN ANTHROPOLOGY AND EDUCATION**

3 credits.

Anthropological theory, methodology, and field techniques with specific reference to school ethnography and cross-cultural studies of socialization and education. Topics vary.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ANTHRO/A A E/C&E SOC/GEOG/HISTORY/LACIS/POLI SCI/PORTUG/SOC/SPANISH 982 – INTERDEPARTMENTAL SEMINAR IN THE LATIN-AMERICAN AREA**

1-3 credits.

Interdisciplinary inquiry in Latin American society and culture.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ANTHRO/AFRICAN/ECON/GEOG/HISTORY/POLI SCI 983 – INTERDEPARTMENTAL SEMINAR-AFRICAN STUDIES**

3 credits.

Interdisciplinary inquiry in African society and culture.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ANTHRO 990 – RESEARCH AND THESIS**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ANTHRO 999 – READING AND RESEARCH**

1-9 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ART DEPARTMENT (ART)****ART 100 – INTRODUCTION TO ART**

3 credits.

Explores elements of visual language through lecture and art studio work, focusing on the development and application of both critical thinking and hands-on creative skills. Not open to students declared in BS-Art, BFA-Art, or BS-Art Ed

**Requisites:** Freshman or sophomore standing or declared in Certificate in Studio Art.**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART 102 – TWO-DIMENSIONAL DESIGN**

3 credits.

Two-dimensional composition and introduction to color theory through lectures, audiovisual materials, and studio assignments.

**Requisites:** Declared in BS-Art, BFA-Art, Pre-Art Education, BS-Art Education, or Certificate in Studio Art**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART 104 – THREE-DIMENSIONAL DESIGN**

3 credits.

Applying design principles to 3-D investigations. Lectures, studio exercises, discussions.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART 107 – INTRODUCTION TO DIGITAL FORMS**

3 credits.

An introduction to a range of digital media techniques for artists and designers, including digital imaging, vector graphics, web design and 3D digital modeling. Emphasis on creative development along with technical skill building.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART 108 – FOUNDATIONS OF CONTEMPORARY ART**

3 credits.

Artists' formal, technical and expressive concerns; the principal ideas of movements which have significantly influenced the major tendencies in contemporary art.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ART 112 – DRAWING I**

3 credits.

To develop perceptions, use of perspective, line, light and dark, development of space, and expressive qualities in drawing.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART 176 – DIGITAL PHOTOGRAPHY FOR NON-ART MAJORS**

4 credits.

Introduction to tools, techniques and concepts of digital photography, with an emphasis on the workflow beginning with composition and image capture, to digital manipulation and enhancement, to the end goal of print or online publication. Students will develop a robust fundamental skill set in digital photography through lectures, readings, discussions, practical instruction, instructor review and group critiques.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART 208 – CURRENT DIRECTIONS IN ART**

3 credits.

Examination of current artists' motivations, intentions, and processes and their relationship to general developments in contemporary art.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**ART 212 – DRAWING METHODS & CONCEPTS**

3 credits.

Explore the drawing process through projects that address one or more formal, technical, and/or conceptual issues. The concept of drawing as a vehicle for conveying ideas will be addressed through the study of composition, illusional space, perspective and proportion, and the analysis of form.

**Requisites:** ART 112, or declared in a BS-Art, BFA-Art, or BS-Art Ed degree program**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART 214 – SCULPTURE I**

4 credits.

Introduction to techniques and basic sculpture concepts to provide a survey of sculpture studio practices.

**Requisites:** ART 104**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART 222 – INTRODUCTION TO PAINTING**

3-4 credits.

Introduction to various technical processes and aspects of painting. Studio practice, lectures, discussions, and critiques.

**Requisites:** ART 102, 112, 212, or 302**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART 224 – CERAMICS I**

4 credits.

Properties of clay and fundamentals of forming; hand-building, throwing, slip-casting, press molding; with emphasis on individual form concepts. Glazing, decorating, firing techniques including reduction, oxidation and primitive methods.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART/DS 226 – TEXTILE DESIGN: OFF-LOOM CONSTRUCTION**

3 credits.

Studio design problems in two and three dimensional off-loom constructions; off-loom weaving, looping, and knotting; historical reference and contemporary application.

**Requisites:** DS 120 and 153**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**ART/DS 229 – TEXTILE DESIGN: WEAVING I**

3 credits.

Development of individual design solutions within basic weave structures. Historical and technical influence on contemporary woven design.

**Requisites:** DS 120 and 251**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART 232 – LIFE DRAWING I**

4 credits.

Anatomical structure and intrinsic forms involved in drawing from different models. Development of technical control in a range of media.

**Requisites:** ART 212 and (ART 100, 108, or 208)**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART 236 – BASCOM COURSE**

3 credits.

A low-enrollment course developing skills in critical reading, logical thinking, use of evidence, and use of library resources. Emphasis on writing in the conventions of specific fields.

**Requisites:** Satisfied Communications A requirement**Course Designation:** Gen Ed - Communication Part B**Repeatable for Credit:** No**Last Taught:** Spring 2017**ART 242 – WATERCOLOR I**

3-4 credits.

Painting with watercolor and mixed media on paper. Experimental and traditional uses of the media will be explored, emphasizing drawing, composition, and imagination. Field trips.

**Requisites:** ART 112, 212, 222, 316, 326, or 336**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ART 244 – ART METAL I**

3-4 credits.

Basic jewelry techniques; metal fabrication dealing with piercing, soldering, forming.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 302 – COLOR**

4 credits.

Color phenomena and visual perception as applied in art problems. Lectures, readings in theory, philosophy, and history of design.

**Requisites:** ART 102, 107, 112, 212, 222, 232, 242, 306, 312, 316, 326, 336, or DS 120

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 306 – RELIEF PRINTMAKING**

3-4 credits.

Woodcut, collage print, linoleum cut, and wood engraving; color printing. Studio practice, lectures, discussion, critiques.

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 309 – DIGITAL ART AND CODE**

4 credits.

An introduction to the principles of computer coding in a visual context. Course emphasizes the production of graphical and interactive output delivered on a screen.

**Requisites:** ART 107 or declared in an Art graduate program

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ART 312 – INTERMEDIATE DRAWING I**

3-4 credits.

The exploration of conceptual drawing in various media. Emphasis on conceptual/formal solutions.

**Requisites:** (ART 212, 232, 316, or 326), or declared in an Art graduate program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 314 – SCULPTURE II**

4 credits.

Continued investigation in sculpture studio practices with an emphasis on developing concepts and technique.

**Requisites:** ART 214 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 316 – LITHOGRAPHY**

4 credits.

Direct drawing on stone with crayon and tusche, transfer techniques, color processes; studio practice, lectures, discussions, and critiques.

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 318 – INTRODUCTION TO VIDEO, PERFORMANCE & INSTALLATION ART**

4 credits.

An introduction to time-based art forms including video, installation, and visual art performance.

**Requisites:** ART 107 and (ART 100, 108 or 208) or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**ART 322 – INTERMEDIATE PAINTING I**

4 credits.

Development of technical processes, concepts, historical continuity.

Study and application of various media of oils, acrylics, collage materials.

**Requisites:** ART 222 or declared in an Art graduate program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 324 – CERAMICS II**

4 credits.

Continued investigation into forming; hand-building, throwing, slip-casting, press molding; with emphasis on individual form concepts. Glazing, decorating, firing techniques including reduction, oxidation and primitive methods.

**Requisites:** ART 224 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**ART 326 – ETCHING**

4 credits.

Introduction to intaglio printmaking techniques. Studio problems in platemaking and printing.

**Requisites:** (ART 102, 112, 212, 232, 306, 316, or 336) or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ART 328 – THE COMPUTER IN THE VISUAL ARTS**

4 credits.

Survey of the use of the computer in art: history, artists' work, techniques, and the practical generation of computer-assisted imagery. Cons inst.

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**ART 332 – LIFE DRAWING II**

4 credits.

Further investigation into anatomical structure and intrinsic forms involved in drawing from different models. Development of concepts and technique.

**Requisites:** ART 232 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 334 – WOOD WORKING**

3-4 credits.

Exploration of wood as a medium for constructing creative and functional three-dimensional forms.

**Requisites:** (ART 104, 112, 212, 214, 224, 244, 354 or DS 220) or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 336 – SERIGRAPHY**

3-4 credits.

Materials and techniques of silk screen process; silk screen as a fine art form.

**Requisites:** (ART 102, 112, 212, 222, 232, 306, 316, or 326) or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 338 – SERVICE LEARNING IN ART**

2 credits.

Students discuss community-based practices in the field, and will work with a community partner in an art-related capacity.

**Requisites:** None

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART/DANCE 341 – SOUND DESIGN FOR THE PERFORMING AND VISUAL ARTS**

3 credits.

Production of audio soundtracks to complement the work of artists. The relationship of sound and music to dance, video, film, computer art, and other interdisciplinary forms.

**Requisites:** Declared in an Art, Dance, or Communication Arts program

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 342 – WATERCOLOR II**

4 credits.

Continued investigations in watercolor and mixed media works on paper with goal of development of concepts and technical skill.

**Requisites:** ART 242 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 343 – METAL FABRICATION AND WELDING IN SCULPTURE**

3-4 credits.

Reviews common welding and metal fabrication techniques available to artists, including various welding processes, brazing techniques, torch work, cutting devices, bending methods, and finishing techniques. Mild steel will be the primary material of exploration.

**Requisites:** (ART 214 or 244) or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**ART 344 – ART METAL II**

4 credits.

Advanced jewelry techniques: exploration of centrifugal lost wax casting, forging, stone setting, and hollow construction.

**Requisites:** ART 244 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**ART 346 – BASIC GRAPHIC DESIGN**

4 credits.

Introduces students to the basic principles of graphic design. Students will develop an initial understanding of formal, conceptual, and technical aspects of the field. Emphasis will be given to the importance of working process, presentation and craftsmanship.

**Requisites:** ART 107**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART 348 – INTRODUCTION TO DIGITAL PRINTMAKING**

4 credits.

Provides students with fundamental skills in combining hand printed and digital output. Hybrid print integrates laser plate, monoprint, collograph, stencil, stamping, and embossment with inkjet output. Focuses on enhancement of digital output through integration of hand printed elements.

**Requisites:** (ART 102, 107, 176, 306, 316, 326, 336, 346, or 376) or declared in an Art graduate program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART 354 – GLASSWORKING**

4 credits.

Glassworking toward a personal concept of material.

**Requisites:** (ART 104, 214, 224, 244, or 334) or declared in an Art graduate program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART 356 – INTERMEDIATE TYPOGRAPHY**

4 credits.

Examines the design and organization of printed word and letterforms in combination with other graphic elements. Exploration of experimental typographic forms, interpretive design, and text and image relationships will be emphasized. This course can be taken concurrently with ART 346

**Requisites:** ART 107, 108, 208, and 256**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**ART/THEATRE 366 – STAGE LIGHTING I**

3-4 credits.

Application of lighting design to the stage and natural environment. Color principles, lighting instruments, and control equipment. Production participation and labs.

**Requisites:** Sophomore standing**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART/THEATRE 372 – SET DESIGN I**

3 credits.

Principles of composition, scale, perspective, and color applied to the stage; production of ground plans, elevations, sketches, and models.

**Requisites:** None**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART 376 – PHOTOGRAPHY**

3-4 credits.

Techniques, philosophies, and concepts in photography as an art form. Emphasis on personal expression and relationship to other media.

**Requisites:** (ART 100, 102, 104, 107, 108, 176, or 208) or declared in an Art graduate program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART 393 – INTERNSHIPS IN ART**

1 credit.

This online course allows students who have found outside art-related internships to earn academic credit in connection with their work experience.

**Requisites:** None**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ART 409 – DIGITAL FABRICATION STUDIO**

4 credits.

Introduction to the practice and application of digital fabrication technologies in an artistic context with an emphasis on extending and integrating with traditional material approaches to art production. Includes theoretical readings devoted to the implications of digital and machine technologies on art practice.

**Requisites:** ART 107 or declared in an Art graduate program**Repeatable for Credit:** No**ART 412 – INTERMEDIATE DRAWING II**

4 credits.

Continued exploration of conceptual drawing in various media. Emphasis on conceptual/formal solutions.

**Requisites:** ART 312 or declared in an Art graduate program**Repeatable for Credit:** No**Last Taught:** Fall 2010

**ART 414 – ART FOUNDRY**

3 credits.

Traditional and nontraditional methods of fine art foundry.

**Requisites:** (ART 104, 214, 224, 244, 314, 334, 343, or 354), or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ART 422 – INTERMEDIATE PAINTING II**

4 credits.

Continued development of technical processes, concepts, historical continuity. Study and application of various media of oils, acrylics, collage materials.

**Requisites:** ART 322 or declared in an Art graduate program

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**ART 428 – DIGITAL IMAGING STUDIO**

4 credits.

Explore current and historical practices in the digital fine arts while refining conceptual and technical understanding of digital art forms as powerful tools for generating and communicating images and ideas. Students will create and manipulate both static and moving imagery, with implications for digital drawing, painting, print-making, video editing/post-production, and narrative or non-narrative 2D animation in a fine art context.

**Requisites:** (ART 107, 176, 318, 429, or 529) or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 429 – 3D DIGITAL STUDIO I**

4 credits.

Introduction to three-dimensional modeling in the computer, in particular the use of 3D digital models for the creation of images and objects.

**Requisites:** ART 107 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 438 – CULTURAL CONTEXT OF GRAPHIC DESIGN AND TYPOGRAPHY**

4 credits.

Examines the major developments and changes in graphic design and typography as the fields emerged and defined themselves during the last one hundred years.

**Requisites:** ART 102, 107, and 346

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ART/DANCE 441 – ADVANCED SOUND DESIGN**

3 credits.

Advanced instruction in the production of sound tracks to complement the work of artists in dance, video, film, computer art and other interdisciplinary forms.

**Requisites:** ART/DANCE/ART 341

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ART 446 – ARTISTS' BOOKS**

4 credits.

The multiple and sequential visual imagery of the non-printed book, including its design and creation.

**Requisites:** (ART 306, 316, 326, 336, 346, or 376) or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ART 448 – SPECIAL TOPICS**

1-4 credits.

Various beginning-level special topics courses in Art.

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 452 – INTERMEDIATE PAINTING: NEW FIGURATION I**

4 credits.

The human figure as a source for creative and independent viewpoints in painting and other media. Students work together in the painting studio from a live model and from other figural sources.

**Requisites:** (ART 222, 232 or 322) or declared in an Art graduate program

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 454 – NEON: LIGHT AS SCULPTURE**

4 credits.

Introduction to light as sculptural medium including techniques for creating art using luminous tubes.

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 456 – ILLUSTRATION**

3 credits.

Practice of illustration for commercial printing.

**Requisites:** ART 102 and (ART 212, 232, 312, or 332) or declared in an Art graduate program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ART 458 – GRAPHIC DESIGN FOR BRANDING AND IDENTITY**

4 credits.

This is an advanced graphic design course with an emphasis on corporate brand identity development. Topics can include mark development, product packaging, marketing and advertising collateral, web branding, and broadcast advertising development. Special attention is given the application of semiotics and other forms of basic communication theory to the design process.

**Requisites:** ART 102, 107, 346, and 438**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART 463 – INFORMATION GRAPHICS**

4 credits.

This course examines the theory and practice of visual representation of information. Students will learn to create effective and illuminating graphical displays of data based on four basic formulations – location, time, category, hierarchy, and index.

**Requisites:** ART 102, 107, 346, and 438**Repeatable for Credit:** No**Last Taught:** Fall 2016**ART 465 – GRAPHIC DESIGN FOR PACKAGING**

4 credits.

Defines the role of packaging in product identification, presentation, and production. The unique challenges of adapting typography, illustration, design and materials to three-dimensional forms are explored. Research includes marketing objectives, structural integrity and display aesthetics.

**Requisites:** ART 102, 107, 346, and 438**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART 466 – PAPERMAKING: HISTORY, ELEMENTS AND TECHNIQUES**

4 credits.

Investigation and explanation of papermaking by hand as it relates to printmaking, drawing, and sculpture. History of papermaking stressing the last hundred years. Techniques of the craft, traditional sheet forming and use of paper pulp as pure plastic material with same educational goals as metal, ceramics, and wood.

**Requisites:** None**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**ART 467 – GRAPHIC DESIGN FOR POSTERS**

4 credits.

Examines the design of posters as a mode of communication. Students will learn to create effective combinations of words and images that mobilize principles of composition, perception, and rhetoric. Projects will encourage students to further explore graphic design as a means of communication, artistic expression, and information organization.

**Requisites:** ART 102, 107, 346, and 438**Repeatable for Credit:** No**Last Taught:** Spring 2017**ART 469 – INTERDISCIPLINARY STUDIES IN THE ARTS**

1-4 credits.

Guest artists will offer interdisciplinary courses on topics appropriate to their specializations.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ART 470 – SPECIAL TOPICS IN 4D ART**

3-4 credits.

Topics courses exploring historical, theoretical and studio components surrounding time-based art forms including digital animation, video, installation, and visual art performance.

**Requisites:** None**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ART 476 – INTERMEDIATE PHOTOGRAPHY**

4 credits.

Introduction to more advanced printing techniques, large format camera, critical analysis, and discussion of history of photography and current trends.

**Requisites:** ART 376 and (ART 107 or 176) or declared in an Art graduate program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART 506 – ADVANCED RELIEF PRINTMAKING**

4 credits.

Emphasis on color problems, surface qualities; studio practice, discussion, critiques.

**Requisites:** ART 306 or declared in an Art graduate program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**ART 508 – COLLOQUIUM IN ART**

1 credit.

Prominent artists, curators critics present their work through lectures and visual presentations.

**Requisites:** None

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 511 – ART PERFORMANCE**

3-4 credits.

An exploration of art genres that often incorporate a form of time-based performance, including but not limited to elements found in theater, dance, music, spoken word/poetry, etc.

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2010

**ART 512 – ADVANCED DRAWING I**

4 credits.

Advanced level drawing course taught in a structured format where students work on various problems/issues in drawing.

**Requisites:** ART 312 and (ART 100, 108 or 208) or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 514 – ADVANCED SCULPTURE WORKSHOP 1**

4 credits.

Instruction in the use of various materials as required by the individual in terms of the formal and conceptual basis of the work. Emphasis on independent research and development of studio projects.

**Requisites:** ART 314 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 516 – ADVANCED LITHOGRAPHY**

2-3 credits.

Development of advanced concepts and techniques in lithography, to include drawing on stone with crayon and tusche, transfer techniques, color processes; studio practice, lectures, discussions, and critiques.

**Requisites:** ART 316 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 518 – ARTIST'S VIDEO**

4 credits.

Principles and techniques in video art.

**Requisites:** (ART 208 and 318) or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ART 521 – INSTALLATIONS AND ENVIRONMENTS**

4 credits.

Studio projects in site-specific art making supplemented by readings and examples of relevant contemporary artists' work.

**Requisites:** ART 214 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 522 – ADVANCED PAINTING I**

4 credits.

Technical processes; emphasis on personal expression, concepts, in various approaches to painting.

**Requisites:** (ART 322 or 452) or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 524 – ADVANCED CERAMICS I**

4 credits.

Thrown and hand-built forms, clay bodies, glazes, firing, general studio procedure; emphasis on development of personal concepts.

**Requisites:** ART 324 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 526 – ADVANCED ETCHING/INTAGLIO**

4 credits.

Research in advanced intaglio techniques. Color printing.

**Requisites:** ART 326 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 528 – DIGITAL INTERACTIVE STUDIO**

4 credits.

Concepts and techniques of digital interactive art with an emphasis on physical interaction.

**Requisites:** ART 107 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 529 – 3D DIGITAL STUDIO II**

4 credits.

Intermediate/advanced class covering the theory and practice of 3D digital modeling and animation software as a tool for making art.

**Requisites:** ART 107 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ART 531 – SCREEN PERFORMANCE**

3-4 credits.

Focuses on performance made for the screen including first person narrative, spoken word, video dance, fictional cinema, experimental documentary and other forms of mediated performance practice.

**Requisites:** None

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ART 532 – ADVANCED LIFE DRAWING I**

4 credits.

Further examination of the percepts of drawing with the human figure. Emphasis on formal elements. Problems of structure. Intense studio practice working from the model.

**Requisites:** ART 332 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 534 – ADVANCED WOOD WORKING**

4 credits.

Development of advanced concepts and techniques in wood-based functional and/or fine art forms.

**Requisites:** ART 334 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 536 – ADVANCED SERIGRAPHY**

4 credits.

Development of advanced concepts and techniques using silk screen processes to create fine art forms.

**Requisites:** ART 336 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 542 – ADVANCED WATERCOLOR I**

4 credits.

Transparent and opaque watercolor media; studio practice, critiques, field trips.

**Requisites:** ART 342 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 544 – ADVANCED ART METAL I**

4 credits.

Advanced techniques in creating functional and/or fine art metal objects.

**Requisites:** ART 208 and 344 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 546 – GRAPHIC DESIGN FOR PUBLICATIONS**

4 credits.

Covers the theory and practice of designing newspapers, magazines, books, and other narrative forms. Emphasis will be placed on advanced typographic theory, and advanced digital and manual production skills.

**Requisites:** ART 102, 107, 346, and 438

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 548 – SPECIAL TOPICS: ADVANCED LEVEL**

1-4 credits.

Topical courses in art at an advanced level.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 552 – ADVANCED PAINTING: NEW FIGURATION II**

4 credits.

Advanced work in depicting the human figure as a source for creative and independent viewpoints in painting and other media.

**Requisites:** ART 452 or declared in an Art graduate program

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ART 554 – ADVANCED GLASSWORKING**

4 credits.

Advanced concepts and techniques in fine art glass.

**Requisites:** ART 354 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017



**ART 556 – GRAPHIC DESIGN FOR INTERACTIVE MEDIA**

4 credits.

Applies graphic design theory and process to interactive media, including web documents and other forms of electronic publishing. Topics covered include visual design; the fundamentals of website structure and navigation; web typography; accessibility and usability; and writing HTML and CSS. Projects examine the web as a platform for both client-driven and self-published work.

**Requisites:** (ART 102, 107, 346, and 438) and two of: (ART 458, 463, 465, 467, 546, 556, 565, or 568)

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 560 – GRAPHIC DESIGN SENIOR THESIS PROJECT AND EXHIBITION**

4 credits.

A capstone experience for seniors in the Graphic Design Program. A hybrid of studio and seminar, course work will combine inquiry, research, creative problem-solving, and design prototyping. Students will use research to launch a comprehensive graphic design thesis project which will be exhibited at the end of the term.

**Requisites:** (ART 102, 107, 346, and 438) and two of: (ART 458, 463, 465, 467, 546, 556, 565, or 568)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 565 – TYPEFACE DESIGN**

4 credits.

Examine conceptual and technical processes used for designing fonts and typefaces in a digital environment.

**Requisites:** ART 102, 107, 346, and 438

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ART 568 – MOTION TYPOGRAPHY**

4 credits.

Examines conceptual and technical processes used setting type in motion in a digital environment using digital video, computer graphic, and digital photo technologies. Students must take ART 107 and ART 346 prior to enrolling in this course.

**Requisites:** ART 102, 107, 346, and 438

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ART 570 – ADVANCED TOPICS IN 4D ART**

3-4 credits.

Topics courses exploring advanced concepts in historical, theoretical and studio practices in the discipline of time-based art forms, including but not limited to: digital animation, video, installation, and visual art performance.

**Requisites:** ART 470 or declared in an Art graduate program

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART/THEATRE 572 – SET DESIGN II**

3 credits.

Historical survey of visual theatre, painting, and architectural styles adapted to various dramatic forms. Application of design elements and styles to contemporary theatre productions.

**Requisites:** ART/THEATRE/ART 372

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ART 576 – ADVANCED PHOTOGRAPHY**

4 credits.

Emphasis on advanced techniques, color, personal concepts and expression, criticism, communicative potential of photography.

**Requisites:** ART 476 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 608 – INTERDISCIPLINARY CRITIQUE IN THE VISUAL ARTS**

3 credits.

Group critique for advanced students working in the various disciplines of the visual arts.

**Requisites:** Senior standing and declared in BS-Art, BFA-Art or BS-Art Ed degree program or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 612 – ADVANCED DRAWING II**

3-4 credits.

Continuation of advanced level drawing. Focus on advanced techniques and conceptual development in conversation with contemporary drawing practices.

**Requisites:** ART 512 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 614 – ADVANCED SCULPTURE WORKSHOP 2**

3-4 credits.

Continuing instruction in the use of various materials as required by each student in terms of the formal and conceptual basis of their work.

Emphasis on the development of individually directed studio projects, professional art practices, and preparing work for exhibition.

**Requisites:** ART 514 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 618 – ADVANCED ARTISTS' VIDEO**

4 credits.

Advanced course in the production of contemporary video art, emphasizing editing skills and the use of special effects, as well as critical analysis and theoretical issues.

**Requisites:** ART 518 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2012

**ART 622 – ADVANCED UNDERGRADUATE PAINTING WORKSHOP**

3 credits.

Continuation of 522. Entrance is by consent through competitive portfolio review, held in the final week of the fall and spring semesters. Qualified applicants will have completed ART 222, 322, and at least one of the following: ART 312, 332, 342, 452, 512, 522, 542; or have transferred equivalent coursework. Not open to graduate students.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 624 – ADVANCED CERAMICS II**

4 credits.

Advanced concepts and practices using clay/ceramics to create fine art objects.

**Requisites:** ART 524 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 629 – 3D DIGITAL STUDIO III**

4 credits.

An advanced project based class in 3D Digital Animation. Students will complete a single major animation project based on their own proposal as approved by the instructor.

**Requisites:** ART 429 or 529

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 632 – ADVANCED LIFE DRAWING II**

3-4 credits.

Advanced work and examination of the percepts of drawing with the human figure. Emphasis on conceptual development in conversation with contemporary life drawing practices.

**Requisites:** ART 532 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 636 – COMPUTER AUGMENTED PRINTMAKING**

4 credits.

Advanced computer imaging for printmaking. Emphasis is on self-initiated projects that combine printmaking or photographic techniques with digital output.

**Requisites:** (ART 306, 316, 326, 336, or 348) or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ART 642 – ADVANCED WATERCOLOR II**

4 credits.

Advanced concepts and processes in transparent and opaque watercolor media.

**Requisites:** ART 542 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 644 – ADVANCED ART METAL II**

4 credits.

Further advanced study in the art of metalsmithing.

**Requisites:** ART 544 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 646 – ART OF THE PRINTED BOOK**

4 credits.

Introduction to the art of the printed book using traditional and state of the art printing processes in a studio format.

**Requisites:** ART 346 and (ART 356 or 446) or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2011

**ART 652 – ADVANCED PAINTING: NEW FIGURATION III**

4 credits.

Advanced investigations in depicting the human figure as a source for creative and independent viewpoints in painting and other media.

**Requisites:** ART 552 or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ART 656 – DESIGN PORTFOLIO AND PROFESSIONAL PRACTICE**

4 credits.

Advanced level graphic course designed to prepare senior level students for entrance into the design profession. Portfolio and resume preparation will be the primary emphasis. Legal and professional practice topics also will be addressed.

**Requisites:** (ART 102, 107, 346, and 438) and two of: (ART 458, 463, 465, 467, 546, 556, 565, or 568)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 660 – ART AND TECHNOLOGY**

4 credits.

An advanced seminar/studio class dealing with theoretical and aesthetic issues relating to the use of technology in contemporary art practice. Readings, and lectures will prepare students for weekly discussions. Each student will complete one research project and one studio project.

**Requisites:** (ART 318, 409, 428, 429, 476, 528, 529, or 636) or declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**ART/AFROAMER 674 – SELECTED TOPICS ON AFRO-AMERICAN ARTISTS**

3 credits.

Works of Black artists in the U.S. discussed historically in terms of movements which they created and in terms of trends evolving on an international scale. Jr st and cons inst.

**Requisites:** Consent of instructor

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2012

**ART 699 – INDEPENDENT STUDY**

1-3 credits.

Independent undergraduate work in advanced area of study under direction of art faculty.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 700 – INTRODUCTION TO GRADUATE STUDIES IN ART**

3 credits.

Introduction to graduate study in art. Will explore the relationships between the contemporary art world, research and studio practice, theoretical issues, and education in the arts. Also addresses building and sustaining a career in the arts.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART 722 – GRADUATE PAINTING I**

2-3 credits.

Graduate level instruction in all painting media.

**Requisites:** Declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 726 – GRADUATE INTAGLIO PRINTMAKING I**

2-3 credits.

Graduate level investigations of advanced intaglio methods; exploration toward an individual and mature imagery in graphics materials.

**Requisites:** Declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 736 – GRADUATE GRAPHICS WORKSHOP I**

2-6 credits.

Graduate level study in advanced graphics media. Emphasis on development of personal concepts.

**Requisites:** Declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 826 – GRADUATE INTAGLIO PRINTMAKING II**

2-3 credits.

Continued grad-level instruction in advanced intaglio methods; exploration toward an individual and mature imagery in graphics materials.

**Requisites:** ART 726

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 836 – GRADUATE GRAPHICS WORKSHOP II**

2-6 credits.

Continued advanced exploration in graphics media, with emphasis on development of personal concept.

**Requisites:** ART 736

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ART 908 – SEMINAR-ART**

3 credits.

Special topics in grad-level seminars.

**Requisites:** Declared in an Art graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 912 – ADVANCED RESEARCH-DRAWING**

1-4 credits.

Graduate level instruction in all drawing media processes.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ART 914 – ADVANCED RESEARCH-SCULPTURE**

1-4 credits.

Graduate level instruction in all sculpture processes.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 922 – ADVANCED RESEARCH-PAINTING**

1-4 credits.

Graduate level instruction in all painting processes.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2016

**ART 924 – ADVANCED RESEARCH-CERAMICS**

1-4 credits.

Graduate level instruction in all ceramics processes.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 942 – ADVANCED RESEARCH-WATERCOLOR**

1-4 credits.

Graduate level instruction in all watercolor processes.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2016

**ART 944 – ADVANCED RESEARCH-ART METAL**

1-4 credits.

Graduate level instruction in metalsmithing.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 996 – ADVANCED RESEARCH-GRAPHICS**

1-4 credits.

Graduate level instruction in all printmaking and photography processes.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART 999 – INDEPENDENT STUDY**

1-4 credits.

Independent graduate work in advanced area of study under direction of art faculty.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## ART EDUCATION (DEPARTMENT OF ART) (ART ED)

**ART ED/CURRIC 322 – INFORMATION DESIGN FOR VISUAL LEARNING**

3 credits.

Building a foundation in art, design, and visual culture, students will develop information design skills enabling them to create visual presentation tools using a wide variety of digital software and hardware as well as traditional media for instruction and learning.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**ART ED/CURRIC 323 – ART IN ELEMENTARY EDUCATION**

3 credits.

Basic principles and problems in teaching art; basis for an understanding and evaluation of children's art work. May not be taken con with Curric/Art Ed 324

**Requisites:** Jr st adm to Elem or Art TC Prog, or Educ Spec, or cons inst.**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART ED/CURRIC 324 – ART IN SECONDARY EDUCATION**

3 credits.

Methods and philosophies of teaching art; problems in implementing theories in practical situations in junior and senior high schools.

**Requisites:** Jr st cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART ED 326 – DESIGN EDUCATION**

3 credits.

Study and application of information, environment, object, and experience design to K-12 art education.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Spring 2014**ART ED/CURRIC 423 – STUDENT TEACHING IN ART IN ELEMENTARY SCHOOLS**

2-6 credits.

**Requisites:** Art Ed, CURRIC/ART ED 323**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** No**Last Taught:** Spring 2017**ART ED/CURRIC 424 – STUDENT TEACHING IN ART IN SECONDARY SCHOOLS**

2-6 credits.

**Requisites:** Art Ed, CURRIC/ART ED 324**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** No**Last Taught:** Spring 2017**ART ED/CURRIC 470 – PRACTICUM IN ELEMENTARY SCHOOL ART**

3 credits.

Selection of appropriate instructional materials and their application to a practical problem in teaching to selected students.

**Requisites:** Jr st cons inst**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ART ED/CURRIC 493 – PRACTICUM IN SECONDARY SCHOOL ART**

3 credits.

Observation and instruction of elementary and secondary pupils in a laboratory setting. Lecture and discussion of topics related to art instruction.

**Requisites:** Art Ed 323 470**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART ED 557 – LEARNING THROUGH DESIGN**

3 credits.

Study of design fields (information design, environmental design, and experience design) in order to identify, examine, and research how designers create objects that enhance experiences with respect to learning, work, and leisure.

**Requisites:** None**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2013**ART ED/CURRIC 570 – ART IN EXCEPTIONAL EDUCATION**

3 credits.

Approaches to developing programs and teaching art to exceptional students in public schools, special schools, and community institutions.

**Requisites:** Jr st 3 cr in studio art, or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2014**ART ED 699 – INDEPENDENT READING AND RESEARCH**

1-3 credits.

**Requisites:** Second sem Sr and cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014**ART ED 900 – CONTEMPORARY PRACTICES IN ART EDUCATION**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2009**ART ED/CURRIC 951 – SEMINAR IN ART EDUCATION**

3 credits.

Examination and analysis of ideas and studies in art education and related areas preparatory to formulating research problems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2013

**ART ED 999 – ADVANCED INDEPENDENT READING**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**ART HISTORY (ART HIST)****ART HIST 101 – THE STUDY OF ART, PRESENT AND PAST**

4 credits.

A critical introduction to the materials, techniques, and interpretation of art. Discussions of the art of various times and cultures, including contemporary America.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2011**ART HIST 103 – ART MATTERS: TOPICS IN ART HISTORY**

3-4 credits.

An accessible introduction to World Art through changing themes. Engaging mini-lectures by professors in different fields of art history coordinated by a framework of foundational information and class exercises. Includes Western Art from Ancient to Contemporary, Chinese Art, Japanese Art, Islamic Art, and African Art, with an emphasis on the arts of the diverse populations of the United States.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ART HIST 105 – INTRODUCTORY TOPICS IN ART HISTORY**

3 credits.

This is a seminar-type course primarily to be offered as a FIG coordinating course. Topics will vary.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ART HIST 201 – HISTORY OF WESTERN ART I: FROM PYRAMIDS TO CATHEDRALS**

4 credits.

Examines the arts and cultures of Europe and the Mediterranean basin before the Renaissance. We explore canonical works such as the pyramids at Giza, the Parthenon in Athens, the Venus di Milo, Hagia Sophia in Constantinople, the Book of Kells, the Great Mosque at Córdoba, Chartres cathedral, and Giotto's Arena Chapel. But we also define art broadly, to encompass the material culture of everyday life, including jewelry, ceramics, and textiles. We consider the social and historical contexts of art and artistic production - art and imperialism, ethnicity, technology, religious ritual and belief, and myth and storytelling. These explorations address basic human concerns: death and the afterlife, desire and the body, self-definition and portraiture, power and propaganda, monstrosity and the supernatural, the divine and the sacred. We develop crucial skill sets: critical visual analysis, contextual interpretation, research methods and resources, historiography, and oral, written and digital communication. Students will apply these skills in assignments focused on works of art in the Chazen Museum.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ART HIST 202 – HISTORY OF WESTERN ART II: FROM RENAISSANCE TO CONTEMPORARY**

4 credits.

Examines the arts and cultures of Europe and North America from the Renaissance through the present. Our discussions will explore important masterpieces by such renowned artists as Leonardo da Vinci, Rembrandt van Rijn, Claude Monet, Paul Cézanne, Pablo Picasso, Frida Kahlo, and Frank Lloyd Wright alongside other works of fine art, architecture, the decorative arts, and photography. By studying the political, historical, social and cultural contexts of their making, we will begin to understand how certain works of art were valued from the moment of their making, fought over by different nations, bought, sold, stolen, or ignored for centuries and revived only recently for study. We will critically examine the concept of artistic genius; the influence of colonialism and imperialism on artistic production and consumption; the role of the patron and the art market in art's production and circulation; the relationship of fine art and popular culture; and the idea of globalization as it relates to "western" artistic traditions. Students will develop skills in visual analysis that can help them understand artistic production over the past 500 years as well as succeed in today's visually oriented culture. They will also learn about dominant interpretive approaches and research tools in art history that have applicability across the humanities as well as digital applications that will help them create online exhibitions. Many assignments will focus on works of art in the Chazen Museum of Art.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017



**ART HIST 203 – SURVEY OF ASIAN ART**

3-4 credits.

Introduction to the artistic traditions of China and Japan from neolithic times to the nineteenth century and the Buddhist art of India with its subsequent East Asia embodiments.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2014**ART HIST/AFROAMER 204 – INTRODUCTION TO VISUAL CULTURES**

3 credits.

This is a foundation course in the transdisciplinary field of Visual Cultures. It examines theories and technologies of vision and visuality in their disparate manifestations over time and cultures and geographies.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**ART HIST 205 – GLOBAL ARTS**

4 credits.

ART IS GLOBAL (and always has been). Today, we find Egyptian protest artists inspiring activists around the globe via the internet, but in earlier times, Roman glass and Buddhist icons moved along the ancient Silk Route, networks of exchange flourished in the medieval Mediterranean region, and colonial empires brought visual cultures into volatile contact. This course teaches students how to analyze images and objects produced through such exchanges that occurred around the world from ancient times through the contemporary. Its aims are to develop skills needed to live fully in a world in which borders are no barriers to the movement of images, objects, and ideas and to deepen understanding of cultural differences and interactions. By exploring works in a range of media and tracing processes of cross-cultural exchange, the course also develops sensitivity to visual and material form and a solid foundation in the practice of visual and material analysis.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ART HIST 206 – SURVEY OF PHOTOGRAPHY: 1839 TO 1989**

3-4 credits.

Survey of 150 years of photography's processes, practitioners, and genres. Emphasis on tensions between its commercial, vernacular, and artistic forms.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ART HIST 208 – WESTERN ARCHITECTURE: RENAISSANCE TO MODERN**

4 credits.

A chronological survey of the development of European architecture from the early fifteenth century to the twentieth.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2008**ART HIST 227 – THE ENDS OF MODERNISM**

4 credits.

This course considers the end of Modernist art as it gives way to what is called, problematically, contemporary art. While the term modern may generally mean what is vanguard or current, Modernism indicates a period of art (and the humanities) ranging from, arguably, 1880-1950. By considering its end, one can study four pivotal aspects of the movement: its origins, themes, and afterlives, as well as the art and histories that challenge its coherence. In this thematic survey, then, Modernism will emerge as a heterogeneous set of images and attendant discourses which, negatively or positively, continue to work within the contemporary artistic and cultural moment.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART HIST/AFROAMER 241 – INTRODUCTION TO AFRICAN ART AND ARCHITECTURE**

3 credits.

This course examines the rich heritage of African arts and architecture as they shape and have been shaped by the histories and cultural values (social, political, religious, philosophical, and aesthetic) of African peoples, both past and present, on the continent where humanity began. It includes an historical overview of selected artistic traditions from different parts of the continent from 26,000 BCE to the 21st century and thematic/cultural case studies: artists and aesthetics; textiles, decorative, and personal/body arts; architecture; and individual artists.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ART HIST/AFROAMER 242 – INTRODUCTION TO AFRO-AMERICAN ART**  
3 credits.

Historical survey of Afro-American art. Beginning with the African heritage and concluding with creativity of the 1970's, it examines the evolution of Afro-American art. Attention to the aesthetic sensibilities of diverse styles as well as the social significance of Black art within the art arena.

**Requisites:** Open to Fr

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART HIST/ANTHRO/DS/HISTORY/LAND ARC 264 – DIMENSIONS OF MATERIAL CULTURE**

4 credits.

This course introduces students to the interdisciplinary field of material culture studies. It is intended for students interested in any professional endeavor related to material culture, including careers in museums, galleries, historical societies, historic preservation organizations, and academic institutions. During the semester, students have varied opportunities to engage with and contemplate the material world to which people give meaning and which, in turn, influences their lives. Sessions combine in some way the following: presentations from faculty members and professionals who lecture on a phase of material culture related to his/her own scholarship or other professional work; discussion of foundational readings in the field; visits to collections and sites on campus and around Madison; discussion of readings assigned by visiting presenters or the professors; and exams and short papers that engage material culture topics.

**Requisites:** None

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART HIST/CLASSICS 300 – THE ART AND ARCHAEOLOGY OF ANCIENT GREECE**

3-4 credits.

Explores the art and archaeology of ancient Greece from the Bronze Age through the Hellenistic period.

**Requisites:** Open to all Undergrads

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART HIST 301 – MYTHS, LOVES, AND LIVES IN GREEK VASES**  
3-4 credits.

Explore the world of the ancient Greeks through their painted pottery. Greek pottery offers a uniquely rich imagery of mythology, athletics, domestic scenes, fabulous monsters, drinking parties, and other aspects of Greek life and imagination. They were used by ordinary people, and their use offers insights into their everyday lives and concerns, and a counterbalance to the elite accounts preserved in literature and poetry. The course will consider the long history of Greek vases from about 800 BC until about 350 BC, and focus on themes such as relationships with the East, myth and epic poetry, narrative, and everyday subjects such as women's lives, death and the afterlife, and the symposium. We will make use of the excellent collection of Greek vases in the Chazen Museum, and students will write research papers using that collection.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ART HIST 302 – GREEK SCULPTURE**

3-4 credits.

Problems in style, techniques and reconstruction of glyptic sculpture, koroplastics and bronzes from the Late Bronze Age through fifth century B.C.

**Requisites:** So st Art Hist 201 or 300 or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**ART HIST/CLASSICS 304 – THE ART AND ARCHAEOLOGY OF ANCIENT ROME**

3-4 credits.

Explores the art and archaeology of ancient Italy, the Roman Republic, and the Roman Empire from the Iron Age to Late Antiquity.

**Requisites:** Open to all Undergrads

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ART HIST 305 – HISTORY OF ISLAMIC ART AND ARCHITECTURE**

3 credits.

This course surveys the architecture, landscape, book arts, and luxury objects produced in Islamic contexts from Spain to India from the 7th through the 21st centuries. Attention will be focused upon the relationships between Islamic visual idioms and localized religious, political, and socioeconomic circumstances. In particular, lectures and readings will examine the vital roles played by theology, royal patronage, ceremonies, gift exchange, trade, and workshop practices in the formulation of visual traditions.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ART HIST 307 – EARLY CHINESE ART: FROM ANTIQUITY TO THE TENTH CENTURY**

3 credits.

This course introduces art forms and concepts developed in China from antiquity to mid-10th century, covering jade carving, metalwork, sculpture, ceramics, calligraphy, painting woodblock printing, and architecture mostly created for religious or funerary purposes. Emerging aesthetic concepts also discussed.

**Requisites:** Sophomore standing or consent of instructor**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ART HIST 308 – LATER CHINESE ART: FROM THE TENTH CENTURY TO THE PRESENT**

3 credits.

Traces the evolution of art forms and concepts from mid-10th century onward, and examines their transformations in modern and contemporary China. Organized chronologically, the course presents developments in painting, calligraphy, woodblock printing, ceramics, architecture, and multimedia installations.

**Requisites:** Sophomore standing or consent of instructor**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ART HIST 310 – EARLY CHRISTIAN AND BYZANTINE ART**

3-4 credits.

Evolving forms of the arts in the period of the first great Christian era.

**Requisites:** So st or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ART HIST 318 – ROMANESQUE AND GOTHIC ART AND ARCHITECTURE**

3-4 credits.

Art and architecture of Western Europe, ca. 1000 to ca. 1350. Particular emphasis on the relationship of the arts to theology, ritual, concepts of the body, rulership and courtliness. Open to Fr

**Requisites:** Art Hist 201.**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**ART HIST 320 – ITALIAN RENAISSANCE ART**

3-4 credits.

Painting, sculpture, and architecture.

**Requisites:** Sophomore standing or consent of instructor**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**ART HIST 321 – ITALIAN ART: 1250-1400**

3-4 credits.

Developments in the arts within the broader historical and cultural context: issues of artistic style, patronage, the artist's emerging self-consciousness. Major artists include Giotto, Duccio, the Pisani, Simone Martini, and Altichiero.

**Requisites:** So st or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2011**ART HIST 322 – ITALIAN ART FROM DONATELLO TO LEONARDO DA VINCI, 1400-1500**

3-4 credits.

Stylistic analysis of 15th century art in Florence and other regional centers. Emphasis on the relationship between the arts and the historical/cultural context.

**Requisites:** So st or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2014

**ART HIST 323 – FROM MICHELANGELO & RAPHAEL TO TITIAN: THE ARTS IN 16TH CENTURY ITALY**

3-4 credits.

This course runs from 1500-1570, or the High Renaissance to Mannerism, and concludes at the beginning of the Church Reform period. Emphasis is on painting, sculpture and architecture, but the graphic and decorative arts as well as patronage and the impact of global discoveries also are included.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**ART HIST 330 – THE PAINTING & GRAPHIC ARTS OF GERMANY 1350-1530**

3-4 credits.

Leaders in German painting and graphics including Stephan Lochner, the Master ES, Durer, and Grunewald.

**Requisites:** So st Art Hist 202 or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2010**ART HIST 331 – ANGELS, DEMONS, AND NUDES: EARLY NETHERLANDISH PAINTING FROM BOSCH TO BRUEGEL**

3-4 credits.

Over the course of the fifteenth and sixteenth centuries, painting in the Netherlands experienced dramatic technological advancements: the application of oil on panel allowed for an unprecedented richness of color; experiments with optics led to improved illusions of space; artists rendered light and reflections as never before. Did these advancements in depicting the natural world conflict with or enhance the portrayal of spiritual visions? Did realism pave the way for secular art? In this course, we will look critically at the relationship of science and art, tradition and innovation, the imagined and the experienced. The delicate preciousness of Jan van Eyck, the strange spaces of Petrus Christus, the bizarre hellscapes of Hieronymus Bosch, and the peasant festivals of Peter Bruegel will guide us through these themes.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ART HIST 332 – NORTHERN PAINTING AND GRAPHICS FROM BOSCH AND HOLBEIN TO BRUEGEL**

3-4 credits.

Late Renaissance and Mannerism in the Netherlands and Germany.

Includes Bosch, Bruegel, Cranach, Holbein.

**Requisites:** So st Art Hist 202 or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2011**ART HIST 333 – NETHERLANDISH PAINTING OF THE 17TH CENTURY**

3-4 credits.

Masters of landscape, genre, religious painting, and portraiture of the Low Countries, including Rubens, Rembrandt, Hals, and Vermeer.

**Requisites:** So st Art Hist 202 or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2011**ART HIST 334 – PRINTS AND MASTER PRINTMAKERS OF THE WESTERN WORLD**

3-4 credits.

Art in the graphic media, from the fifteenth century to the recent past.

**Requisites:** So st Art Hist 202 or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2008**ART HIST 335 – STUDY ABROAD IN ANCIENT/MEDIEVAL ART**

1-6 credits.

Treatment of an art historical topic in a course offered at a university outside the United States.

**Requisites:** Art Hist 201 or 202; Jr st; or cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**ART HIST 336 – STUDY ABROAD IN RENAISSANCE/BAROQUE/NORTHERN ART**

1-6 credits.

Treatment of an art historical topic in a course offered at a university outside the United States.

**Requisites:** Art Hist 201 or 202; Jr st; or cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017

**ART HIST 337 – STUDY ABROAD IN 18TH-20TH CENTURY ART**

1-6 credits.

Treatment of an art historical topic in a course offered at a university outside the United States.

**Requisites:** Art Hist 201 or 202; Jr st; or cons inst

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ART HIST 338 – STUDY ABROAD IN AFRICAN/ASIAN ART**

1-6 credits.

Treatment of an art historical topic in a course offered at a university outside the United States.

**Requisites:** Art Hist 201 or 202; Jr st; or cons inst

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2008

**ART HIST 341 – ITALIAN BAROQUE ART**

3-4 credits.

Italian painting, sculpture, architecture, and the graphic arts between 1600 and 1750 with emphasis on Caravaggio, the Carracci, Artemesia Gentileschi, Bernini, Algardi, Borromini, the Tiepolo family, and Piranese.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**ART HIST 346 – BRITISH ART AND SOCIETY FROM THE EIGHTEENTH CENTURY TO THE PRESENT**

3-4 credits.

Major movements covered include: eighteenth century art of the public sphere (Hogarth, Wright of Derby), Neo-Classicism (Reynolds), Romanticism (Blake, Turner), landscape, Pre-Raphaelites, modern movements and the postmodern revival of British art.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**ART HIST 350 – 19TH CENTURY PAINTING IN EUROPE**

3-4 credits.

History of European painting from 1800 to 1900.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**ART HIST 351 – 20TH CENTURY ART IN EUROPE**

3-4 credits.

Major artists and movements from 1880 to 1950.

**Requisites:** So st Art Hist 202 or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**ART HIST 354 – CROSS-CULTURAL ARTS AROUND THE ATLANTIC RIM: 1800 TO THE PRESENT**

3-4 credits.

Interdisciplinary study of cross-cultural exchange and conflict, focusing on the visual arts, with sections on literature, film and music from the Americas, Africa and Europe.

**Requisites:** Sophomore standing or consent of instructor

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ART HIST 355 – HISTORY OF PHOTOGRAPHY**

3 credits.

European and American photography from its invention to the challenge of electronic media, emphasizing the student's development of a critical approach to the medium.

**Requisites:** So st Art Hist 202 or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART HIST 357 – EUROPEAN ARCHITECTURE: THE NINETEENTH CENTURY**

3-4 credits.

Architecture of the 19th century in France, Britain, Germany, and Spain.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**ART HIST 358 – EUROPEAN ARCHITECTURE: THE MODERN MOVEMENTS**

3-4 credits.

Major architectural trends in Europe from 1900 to 1939.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**ART HIST/AMER IND 359 – AMERICAN INDIAN ART HISTORY:  
CONTEMPORARY ISSUES**

3 credits.

A thematic introduction to contemporary (1960 - present) Native North American art drawing from historic (pre and post-contact) precedents. Topics are generated from the conceptual themes of contact, conflict, exchange, appropriation and re-appropriation of American Indian imagery, materials, and ideas.

**Requisites:** Open to Fr**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2013**ART HIST 360 – EARLY MODERN ART OF NORTHERN EUROPE:  
RENAISSANCES AND REFORMATIONS**

3 credits.

This course critically reexamines concepts traditionally associated with the Renaissance by focusing on the exchange of artistic ideas throughout the Holy Roman Empire and across different media, such as altarpiece paintings, carved portraits, stained glass narratives, innovative uses of print, reappropriations of metalwork, and expressive uses of drawing. The course is organized thematically around four topics: religious art as piety and politics; antiquity as a source of tradition and imagination; the formulation of a public discourse that exposed social threats; and the distinctiveness of artistic claims of individual achievement. A motif throughout the course is the question of how the survival of fragments may be presented in museum contexts as parts standing in for an absent whole. Special topics address collecting, conservation, and technical research. We will also consider how historians approach designs for works of art now lost or never completed. Assignments focus on objects from the Chazen Museum and the Special Collections of Memorial Library.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**ART HIST/DS 363 – AMERICAN DECORATIVE ARTS AND INTERIORS:  
1620-1840**

3-4 credits.

Interdisciplinary study of the design, production, and consumption of household objects and their American domestic settings, 17th through the early 19th centuries.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ART HIST 364 – HISTORY OF AMERICAN ART: ART, MATERIAL CULTURE,  
AND CONSTRUCTIONS OF IDENTITY, 1607-PRESENT**

3-4 credits.

This course examines the history of American Art from the period of permanent European settlement through the present. Works of art and other forms of material culture will be explored and discussed within the context of philosophical, historical, social, and cultural developments in the United States and across the globe. In this course, works of art and artifacts are interpreted not as passive objects that reflect history, but rather as active agents that are entwined with broader historical, social, and cultural events. A particular focus will be on the ways in which American art and material culture participates in the construction of identities - ranging from global identities and national identities (in particular, how notions of "American" have been constructed) to regional, group and individual identities. Although the course will mainly cover works of painting, sculpture, and architecture, other forms of material culture, especially photography, decorative arts and popular illustrations, will also be considered. Attention will also be given to the writings of artists and critics, as well as texts by contemporary art historians, historians, and other scholars that illustrate the variety of methods that are currently being brought to bear on the interpretation of American art, architecture, and material culture. Students will learn skills that will help them construct histories of American art and material culture in written narratives (papers) as well as in online exhibitions through a series of short research exercises. Outside of examinations, assignments will be tied to works of art on display at the Chazen Museum of Art or other local collections.

**Requisites:** Art Hist 202**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**ART HIST 365 – THE CONCEPT OF CONTEMPORARY ART**

3-4 credits.

Traces out some of the radical changes in art produced after roughly 1950, or what might be called contemporary art. By using the term contemporary, however, we also refer to a certain broadly defined set of ideas that inform and emerge from this highly diverse production. The course will largely (although not exclusively) focus on American and European art after the "decline" of Modernism. That entails familiarizing the class with movements ranging from color field painting, to postmodern production, to performance, video, and installation. Additionally, attention will be paid to artists and artwork that are not adequately represented by the traditional categories of art history.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017



**ART HIST 367 – AMERICAN ARCHITECTURE: COLONIAL AND FEDERAL**  
3-4 credits.

American architecture from the sixteenth through the early nineteenth centuries, covering English, Spanish, Dutch and French colonial styles and the Federal period.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2010

**ART HIST 368 – AMERICAN ARCHITECTURE: THE 19TH CENTURY**  
3-4 credits.

Major architects and trends in American architecture from the Greek Revival to the Chicago School.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**ART HIST 371 – CHINESE PAINTING**  
3-4 credits.

A survey of Chinese painting from the third century B.C. to the 18th century, introducing the important masters of each period and discussing the esthetic concepts and theories that underlie traditional connoisseurship.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**ART HIST 372 – ARTS OF JAPAN**  
3-4 credits.

A survey of Japanese art, including painting, sculpture, architecture, woodblock prints and various crafts.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART HIST/RELIG ST 373 – GREAT CITIES OF ISLAM**  
3 credits.

This course offers a comparative study of the foundation and development of five great cities in the history of Islam: Cairo, Istanbul, Delhi, Mecca, and Isfahan. Architectural projects, ornamental idioms, and changes to the urban plan are studied from aesthetic and cultural perspectives. Integrating historical and religious studies, this course highlights the shifting nature of Islamic culture, from the tenth century CE to the present.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**ART HIST 375 – LATER JAPANESE PAINTING AND WOODBLOCK PRINTS**  
3-4 credits.

An introduction to the history and aesthetics of Japanese painting and woodblock prints from 1600 to 1900.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**ART HIST/LCA 379 – CITIES OF ASIA**  
3 credits.

Historical overview of the built environment of cities of Asia from antiquity to the present; architectural and urban legacy in its social and historical context; exploration of common themes that thread through the diverse geographical regions and cultures of Asia.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ART HIST 390 – PRE-COLUMBIAN ART**  
3-4 credits.

**Requisites:** So st

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**ART HIST 405 – CITIES AND SANCTUARIES OF ANCIENT GREECE**

3 credits.

Topics include urbanism in ancient Greece in theory and practice; the forms, technologies, patronage and use of buildings; the creation and conception of urban space; and the organization of religious sites, dedications, and rituals.

**Requisites:** Art Hist 201, 300, 301, 302, CLASSICS/ART HIST 300, or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART HIST 407 – TOPICS IN NINETEENTH CENTURY ART**

3-4 credits.

An advanced lecture course, covering specific aspects of nineteenth century visual culture. Topics include: representations of race and gender; the history of photography; popular imagery and aspects of Modernism.

**Requisites:** Jr st one art hist crse at 200 level one at 300 level, or cons inst

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**ART HIST 408 – TOPICS IN TWENTIETH-CENTURY ART**

3-4 credits.

Advanced lecture course on special topics of 20th-century art that focuses variously on Europe, England, America, or their international interaction. Emphasis on art in its historical and social context.

**Requisites:** Jr st; one art hist crse at 200 level; one art hist crse at 300 level; or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**ART HIST 411 – TOPICS IN ASIAN ART**

3-4 credits.

In-depth examination of special topics related to Asian art, including South Asia, East Asia, Southeast Asia, and Central Asia.

**Requisites:** So st

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ART HIST 412 – TOPICS IN AFRICAN AND AFRICAN DIASPORA ART HISTORY**

3-4 credits.

Cultural and historical forces that have shaped the arts of either a specific people or a specific site in Africa or the African Americas.

**Requisites:** Jr st Afro-Amer 241 or 243 or cons inst

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**ART HIST 413 – ART AND ARCHITECTURE IN THE AGE OF THE CALIPHS**

3 credits.

The tenth century CE marked a period of drastic change in the Islamic world, as the unified Islamic caliphate splintered into three rival dynasties: the Sunni Iraqi Abbasids, Spanish Umayyads, and the Shi'ite Fatimids in Egypt. In their quest to dominate the Islamic world and control the Mediterranean, each dynasty openly competed and responded to the others in architectural projects, ceremonial practices and courtly arts. At the same time, the monolithic model of courtly patronage of the arts was replaced gradually by one in which the urban classes increasingly shaped the art market, resulting in new visual forms. This course considers this turning point in the history of Islamic culture through the lens of art and architectural patronage. By exploring the architectural and urban projects of the three dynasties, we will examine competing visions of power, sources of legitimacy and the development of Cairo, Baghdad/Samarra and Cordoba as capital cities. We will also consider the role of portable arts, addressing the role of exchange and gift-giving in the Mediterranean context and the problems of attribution in this highly mobile environment. Course themes include the role of sectarian identity (Shi'ite vs Sunni); the incorporation of Christian and Jewish culture; the relation between the court and urban populations; and the meaning of ornament and style in Islamic art.

**Requisites:** Sophomore Standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ART HIST/MEDIEVAL 415 – TOPICS IN MEDIEVAL ART**

3 credits.

An advanced lecture course, covering specific aspects of Medieval art. Topics may include: "Death and the Afterlife in Medieval Art"; "Civic Art and Architecture and Public Space in Medieval Italy"; "Rome in the Middle Ages"; "Pilgrimage the Cult of the Saints in Medieval Byzantine Art."

**Requisites:** Jr st one Art Hist crse at 200 level and one at 300 level, or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART HIST 420 – TOPICS IN ITALIAN RENAISSANCE ART**

3 credits.

An advanced lecture course, covering specific aspects of Italian Renaissance art. Topics may include: "Material Culture: Is 'Copying' Imitatio?"; "Concepts of Race"; "'Authorship' vs. Collaboration"; "Colonialism as Trade"; "Gender at Stake."

**Requisites:** Jr st one Art Hist crse at 200 level and one at 300 level, or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**ART HIST 425 – RACE AND GENDER IN ITALIAN EARLY MODERN ART**

3 credits.

This course focuses on critical omissions in traditional characterizations of Italian Renaissance art. Gender and race issues created tensions between historical contexts and visual representations, often idealized or obscured. The course reevaluates imagery of nudes, witches, children, and material culture.

**Requisites:** One of the following: Art Hist 202, 320, 321, 322, 323, 341, 525 or 825

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**ART HIST/LCA 428 – VISUAL CULTURES OF SOUTH ASIA**

3 credits.

Concentrates on image complexes (art, photography, and cinema) and visual environments (architecture, urban planning, and public rituals) of South Asia; examination of visual culture through thematic issues such as, sexuality, patronage, cultural encounter, transculturation, ways of viewing, modernism, and nationalism.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ART HIST 430 – TOPICS IN VISUAL CULTURE**

3 credits.

Introduces key issues, theories, and methods in visual cultures studies, emphasizing aspects that affect the practices of art history and providing a changing topical focus that addresses new research in this developing interdisciplinary area.

**Requisites:** None

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**ART HIST 431 – TOPICS IN THEORY**

3 credits.

Introduces philosophy and theory relevant to the study of art history and visual cultures with a focus on a particular body of theoretical work and an organization in terms of key questions and concepts.

**Requisites:** None

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

**ART HIST 432 – MULTICULTURALISM AND THE NEW MUSEOLOGY**

3-4 credits.

Museums and Multiculturalism addresses historic and current trends in museum studies and the impact of shifting professional and popular standards on these movements. The significance of the object in various cultural contexts is critically examined.

**Requisites:** Open to Fr

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**ART HIST 433 – SIGN, SYMBOL, STEREOTYPE: NATIVE ICONS REVEALED**

3-4 credits.

"Native Icons" critically examines images of Native American Indians - from the diverse contexts of fine arts, popular culture, photography and film - in historic and contemporary cultural contexts.

**Requisites:** Open to Fr

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**ART HIST 435 – STUDY ABROAD IN ANCIENT/MEDIEVAL ART**

1-6 credits.

Treatment of an art historical topic in a course offered at a university outside the United States.

**Requisites:** Art Hist 201 or 202; Jr st; or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**ART HIST 436 – STUDY ABROAD IN RENAISSANCE/BAROQUE/NORTHERN ART**

1-6 credits.

Treatment of an art historical topic in a course offered at a university outside the United States.

**Requisites:** Art Hist 201 or 202; Jr st; or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**ART HIST 437 – STUDY ABROAD IN 18TH-20TH CENTURY ART**

1-6 credits.

Treatment of an art historical topic in a course offered at a university outside the United States.

**Requisites:** Art Hist 201 or 202; Jr st; or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**ART HIST 438 – STUDY ABROAD IN AFRICAN/ASIAN ART**

1-6 credits.

Treatment of an art historical topic in a course offered at a university outside the United States.

**Requisites:** Art Hist 201 or 202; Jr st; or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**ART HIST 440 – ART AND POWER IN THE ARAB WORLD**

3 credits.

This course considers the use of art and architecture as an expression of power in the Arab world, from the seventh century to the present. Beginning with the establishment of the caliphate and ending with the arts of revolution following the Arab Spring, we will investigate the shifting role of art and architecture in the quest for political dominance. With a particular focus on the arts of Cairo, Baghdad, Cordoba, Mecca, Jerusalem, Damascus, and the modern Arabian Gulf, we will explore competing visions of power and sources of legitimacy, through the lens of artistic production.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ART HIST 449 – TOPICS IN ARCHITECTURAL HISTORY**

3 credits.

Assessment of how cultural phenomena help shape a given architectural development.

**Requisites:** Cons inst

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**ART HIST 454 – ART IN GERMANY, 1900-1945**

3-4 credits.

Expressionism and its sources, with an emphasis on developments prior to World War I; the Bauhaus and the later careers of major figures.

**Requisites:** Jr st; Art Hist 201 or 202; and at least one other upper-level crse in art hist or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**ART HIST 457 – HISTORY OF AMERICAN VERNACULAR ARCHITECTURE AND LANDSCAPES**

3 credits.

Survey of American vernacular buildings and landscapes from the colonial period to the present. Emphasis is on acquiring descriptive tools and developing interpretive frameworks to explore the significance that these vernacular environments have had for their makers and users.

**Requisites:** Jr st at least one Art Hist crse, or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ART HIST 463 – TOPICS IN AMERICAN MATERIAL CULTURE**

3-4 credits.

In depth examination of special topics related to material culture and the decorative arts, including craftsmanship, consumerism, representations of race, ethnicity, and gender, and museum histories and exhibition practices.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2011

**ART HIST/DS/HISTORY 464 – DIMENSIONS OF MATERIAL CULTURE**

3 credits.

Approaches to the interdisciplinary study of the material world in order to analyze broader social and cultural issues. Guest speakers explore private and public objects and spaces from historic, ethnographic, and aesthetic perspectives.

**Requisites:** One course 300-level or higher in ART HIST or DS

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**ART HIST 468 – FRANK LLOYD WRIGHT**

3-4 credits.

An analysis of Frank Lloyd Wright's architecture and writings.

**Requisites:** Jr st one crse in architect hist or cons inst

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ART HIST 469 – INTERDISCIPLINARY STUDIES IN THE ARTS**

1-4 credits.

Guest artists will offer interdisciplinary courses on topics appropriate to their specializations.

**Requisites:** Consent of department

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**ART HIST 475 – JAPANESE CERAMICS AND ALLIED ARTS**

3 credits.

A history of Japanese ceramics and related topics such as Chinese and Korean ceramics and the tea ceremony. Emphasis placed on the technological, cultural, political, and economic, as well as aesthetic, dimensions of ceramic development. Knowledge of Japan recommended

**Requisites:** Undergrads: a prev crse in art hist or design satisfaction of Com B requirement.

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ART HIST/RELIG ST 478 – ART AND RELIGIOUS PRACTICE IN MEDIEVAL JAPAN**

3 credits.

A study of spaces, objects, and images within the context of religious belief and practice in Japan between 1300 and 1600, when great Zen monasteries grew up alongside older Buddhist/Shinto religious "megaplexes," and new salvationist sects spread throughout Japan. Knowledge of Asian religion recommended

**Requisites:** Undergrads: a prev crse in art hist or relig studies satisfaction of Com B requirement.

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**ART HIST 479 – ART AND HISTORY IN AFRICA**

3-4 credits.

Selected African art traditions in their historical and cultural settings.

**Requisites:** Jr st one crse in African art or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**ART HIST 500 – PROSEMINAR: SPECIAL TOPICS IN ART HISTORY**

3 credits.

**Requisites:** Jr st cons inst

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ART HIST 505 – PROSEMINAR IN ANCIENT ART**

3 credits.

**Requisites:** Jr st cons inst

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ART HIST 506 – CURATORIAL STUDIES EXHIBITION PRACTICE**

3 credits.

This course will engage students in all aspects of the preparation of an exhibition for the Chazen Museum of Art or other exhibition spaces on campus. Students will help conceptualize the exhibition and its layout, research and interpret individual objects, prepare wall texts for the display and other materials published in print or online in conjunction with the exhibition. The specific topic will be different each time the course is taught. At least one previous course in Art History at 300 level or above. Preference will be given to students enrolled in the Curatorial Studies Certificate programs

**Requisites:** Junior Standing.

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART HIST 515 – PROSEMINAR IN MEDIEVAL ART**

3 credits.

**Requisites:** Jr st cons inst

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART HIST 525 – PROSEMINAR IN ITALIAN RENAISSANCE ART**  
3 credits.**Requisites:** Jr st cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**ART HIST 535 – PROSEMINAR IN NORTHERN EUROPEAN PAINTING**  
3 credits.**Requisites:** Jr st cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**ART HIST 555 – PROSEMINAR IN 19TH CENTURY EUROPEAN ART**  
3 credits.**Requisites:** Jr st cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ART HIST 556 – PROSEMINAR IN 20TH CENTURY EUROPEAN ART**  
3 credits.**Requisites:** Jr st cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**ART HIST 563 – PROSEMINAR IN MATERIAL CULTURE**  
3 credits.

Interdisciplinary study of the way people use objects and environments to express identities and relationships in households, communities, and larger social/economic systems.

**Requisites:** So st**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART HIST 565 – PROSEMINAR IN AMERICAN ART**  
3 credits.**Requisites:** Jr st cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**ART HIST 567 – PROSEMINAR IN AMERICAN ARCHITECTURE**  
3 credits.**Requisites:** Jr st cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2011**ART HIST 569 – INTERDISCIPLINARY STUDIES IN THE ARTS**  
1-4 credits.

Guest artists will offer interdisciplinary courses on topics appropriate to their specializations.

**Requisites:** Consent of department**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**ART HIST 575 – PROSEMINAR IN JAPANESE ART**  
3 credits.**Requisites:** Any course treating Japanese art, or cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2010**ART HIST 576 – PROSEMINAR IN CHINESE ART**  
3 credits.**Requisites:** Cons inst or any other crse in Chinese art or Art Hist 203**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ART HIST 579 – PROSEMINAR IN AFRICAN ART**  
3 credits.

Study (either thematic or culture-specific) of African arts and architecture in historical and cultural perspectives.

**Requisites:** Junior standing or consent of instructor**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**ART HIST 600 – SPECIAL TOPICS IN ART HISTORY**  
3 credits.**Requisites:** Jr st, or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**ART HIST 601 – INTRODUCTION TO MUSEUM STUDIES I**

3 credits.

History of museums and collecting; introduction to connoisseurship; studies and practices in art museum activities; experience in exhibition planning, research, cataloging, and installation.

**Requisites:** Sr or Grad st; cons inst; ltd enrollment**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART HIST 602 – INTRODUCTION TO MUSEUM STUDIES II**

3 credits.

Continuation of 601

**Requisites:** Art Hist 601 cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ART HIST 603 – CURATORIAL STUDIES COLLOQUIUM**

3 credits.

This course is designed to introduce advanced undergraduate students to a broad range of questions, both theoretical and practical, related to curatorial practice. The core of the course is a series of sessions on curatorial strategies. Particular emphasis will be placed on integrative and collaborative approaches to curating a wide variety of material: art, film, music, books, anthropology/culture, archeology, history, geology, zoology, dance, etc. With this ideal in mind, we will bring in a series of experts to engage with each other and with the class on the theories, objectives, and processes of conceiving, designing, and mounting exhibitions, as well as reaching different audiences with both physical and virtual exhibitions. Students will also be introduced to the distinctive collections and resources on campus and in the region.

**Requisites:** Junior standing or consent of instructor**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**ART HIST/LCA 621 – MAPPING, MAKING, AND REPRESENTING COLONIAL SPACES**

3 credits.

Spatial legacy of colonialism; explores important ways in which the population, landscape, architecture, and urban environment of colonies were mapped, made, and represented, particularly in the 19th and 20th centuries; theoretical and empirical analyses from diverse disciplines and spatial terrain.

**Requisites:** Sr st or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ART HIST/AFROAMER 643 – SELECTED TOPICS IN AFRICAN DIASPORA ART HISTORY**

3 credits.

Art history of a specific African cultural tradition (eg. Yoruba, Kongo, Fon, Akan) and its transformation in the Caribbean, Central and South America in response to new social, historical, and hegemonic forces.

**Requisites:** Afro-Amer 241, 242, 243 or consent of instructor**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012**ART HIST/HISTORY/JOURN/L I S 650 – HISTORY OF BOOKS AND PRINT CULTURE IN EUROPE AND NORTH AMERICA**

3 credits.

History of books and print culture in the West from ancient times to the present. Focus on the influence of reading and writing on social, cultural, and intellectual life. Methodologies, theories, and sources for study of book and print culture history.

**Requisites:** Enrollment limited to graduate students in the L I S program or Juniors or Seniors**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ART HIST 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ART HIST 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ART HIST 691 – SENIOR THESIS**

3-6 credits.

**Requisites:** Sr st and cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART HIST 692 – SENIOR THESIS**

3-6 credits.

**Requisites:** Sr st and cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2013**ART HIST 697 – UNDERGRADUATE CURATORIAL STUDIES INTERNSHIP (DIRECTED STUDY)**

1-3 credits.

This directed study may serve as an elective for the new undergraduate certificate in Curatorial Studies, as an elective for the Material Culture certificate program, or for a specific stand-alone project. The goal is to give students credit for applied learning experiences in museums and other curatorial settings. Students must identify internship possibilities and have them approved for credit by the faculty member who will serve as instructor of record, and oversee the academic side of the internship. The nature of the internship will vary according to the host institution, but to be accepted for credit, it must have a substantial research component. Examples include but are not limited to: assisting a curator or registrar with research for an exhibition or permanent collection display; producing wall texts and object labels in an exhibition or permanent collection display; researching and writing catalog entries or essays on an object or objects in an exhibition or permanent collection; preparing catalog entries for works in the permanent collection of a museum/historical society; assisting a curator preparing a dossier for acquisitions; researching conservation histories of objects; provenance research; preparing teaching materials associated with an exhibition or permanent collection either in print or online; preparing and giving public tours of exhibitions or permanent collections; participating in exhibition design. To fulfill a 3-credit internship, the student must average approximately 12 hours a week throughout the semester, including working at the host institution on individual projects, and performing any necessary research and writing outside the host institution. In addition, the student should meet with the faculty advisor for a minimum of 1 hour each month.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2016**ART HIST 698 – DIRECTED STUDY**

2-3 credits.

**Requisites:** Graded on a Cr/N basis; requires Jr or Sr st and cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2010**ART HIST 699 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Graded on a lettered basis; requires Jr or Sr st and cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ART HIST/CLASSICS 700 – THE ART AND ARCHAEOLOGY OF ANCIENT GREECE**

3 credits.

Explores the art and archaeology of ancient Greece from the Bronze Age through the Hellenistic period.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**ART HIST 701 – PRACTICUM IN ART HISTORY: BIBLIOGRAPHY, HISTORIOGRAPHY, METHODS**

3 credits.

Required methodology course for first-year graduate students in art history. Intensive work in critical analysis and research methods; introduction to the methods and historiography of art history; orientation to source work in the Elvehjem collection and in University libraries.

**Requisites:** Declared in Art History graduate program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART HIST 703 – CURATORIAL STUDIES COLLOQUIUM**

3 credits.

This course is designed to introduce graduate students to a broad range of questions, both theoretical and practical, related to curatorial practice. The core of the course is a series of sessions on curatorial strategies.

Particular emphasis will be placed on integrative and collaborative approaches to curating a wide variety of material: art, film, music, books, anthropology/culture, archeology, history, geology, zoology, dance, etc. With this ideal in mind, we will bring in a series of experts to engage with each other and with the class on the theories, objectives, and processes of conceiving, designing, and mounting exhibitions, as well as reaching different audiences with both physical and virtual exhibitions. Students will also be introduced to the distinctive collections and resources on campus and in the region.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No

**ART HIST/CLASSICS 704 – THE ART AND ARCHAEOLOGY OF ANCIENT ROME**

3 credits.

Explores the art and archaeology of ancient Italy, the Roman Republic, and the Roman Empire from the Iron Age to Late Antiquity.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ART HIST 706 – TOPICS IN AMERICAN ART HISTORY**

3 credits.

This graduate-level course typically meets with an intermediate to advanced level lecture course. However, the requirements for graduate students are different, consisting of journal entries, presentations, and a substantial research paper as well as attendance and participation in the lectures. Topics vary but may include such topics as "History of American Art, 1607-present;" "American Genre;" "The Material Culture of American Suburbs;" and "Modernism in American, 1900-1960."

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**ART HIST 707 – TOPICS IN NINETEENTH-CENTURY EUROPEAN ART**

3 credits.

This course typically meets with an intermediate to advanced level lecture courses covering specific aspects of 19th-century visual culture. Topics may include: representations of race and gender; the history of photography; popular imagery, aspects of Modernism, Realism, and Pre-Raphaelitism. However, the requirements for graduate students are different, consisting of presentations and a substantial research paper. The meets-with course is AH407 Topics in European Art.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**ART HIST 712 – TOPICS IN AFRICAN & AFRICAN DIASPORA ART HISTORY**

3 credits.

This course typically meets with an intermediate to advanced level lecture course. However, the requirements for graduate students are different, consisting of mentoring, longer presentations, and a substantial research paper.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**ART HIST 715 – TOPICS IN MEDIEVAL ART**

3 credits.

This course typically meets with an advanced undergraduate topics course that focuses on various themes of current interest in the art, architecture and visual culture of medieval Europe and the Mediterranean (including the Byzantine Empire and Islamic states of the Mediterranean rim). Topics include: Death and the Afterlife; Civic Art, Architecture and Public Space in Medieval Italy; Cultural Appropriation and Alterity in Medieval Art; and Image and Text in Medieval Manuscripts. Class alternates between lecture and discussion of current debates in the scholarly literature. Graduate students are required to write reading responses, a major research paper and give an oral presentation.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ART HIST 731 – TOPICS IN EARLY MODERN ART**

3 credits.

This course encourages graduate students to think deeply and conduct innovative research on topics in Early Modern art. This course typically meets with intermediate to advanced level courses. The requirements include reading responses, a class presentation, and a final research paper. The meets-with courses include "Angels, Demons and Nudes: Early Netherlandish painting;" "Renaissances and Reformations;" "Death and Magic in Renaissance Art;" "The Artist as Scientist."

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ART HIST 749 – TOPICS IN ARCHITECTURAL HISTORY**

3 credits.

This graduate-level topics course typically meets with an intermediate to advanced level lecture course. However, the requirements for graduate students are different, consisting of journal entries, presentations, and a substantial research paper as well as attendance and participation in the lectures and activities. Topic varies but may include such topics as "History of American Vernacular Architecture and Landscapes;" "Frank Lloyd Wright and Modernism" "Domestic Spaces;" and "Signature Buildings in World Architecture."

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**ART HIST/ANTHRO/DS/HISTORY/LAND ARC 764 – DIMENSIONS OF MATERIAL CULTURE**

4 credits.

This course introduces students to the interdisciplinary field of material culture studies. It is intended for students interested in any professional endeavor related to material culture, including careers in museums, galleries, historical societies, historic preservation organizations, and academic institutions. During the semester, students have varied opportunities to engage with and contemplate the material world to which people give meaning and which, in turn, influences their lives. Sessions combine in some way the following: presentations from faculty members and professionals who lecture on a phase of material culture related to his/her own scholarship or other professional work; discussion of foundational readings in the field; visits to collections and sites on campus and around Madison; discussion of readings assigned by visiting presenters or the professors; and exams and short papers that engage material culture topics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART HIST 775 – TOPICS IN JAPANESE ART HISTORY**

3 credits.

This course typically meets with an intermediate to advanced level lecture course. However, the requirements for graduate students are different, consisting of journal entries, presentations, and a substantial research paper. Meets-with courses include "Arts of Japan," "Japanese Ceramics and Allied Arts," and "Art and Religious Practice in Medieval Japan."

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ART HIST 776 – TOPICS IN CHINESE ART HISTORY**

3 credits.

This course typically meets with an intermediate to advanced level lecture course. However, the requirements for graduate students are different, consisting of journal entries, presentations, and a substantial research paper. Meets-with courses include "Early Chinese Art: From Antiquity to the Tenth Century," "Later Chinese Art: From Tenth Century to Contemporary," and "Topics in Asian Art."

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ART HIST 779 – TOPICS IN ARCHITECTURE & URBANISM OF ASIA**

3 credits.

This course typically meets with an intermediate to advanced level lecture course. However, the requirements for graduate students are different consisting of a substantial research paper in addition to course assignments. Meets-with courses includes "Cities of Asia."

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ART HIST 797 – CURATORIAL STUDIES INTERNSHIPS (DIRECTED STUDY)**

3 credits.

This 3-credit directed study fulfills the requirement for the new graduate certificate program in Curatorial Studies, and will be specifically used to give students credit for applied learning experiences in museums and other curatorial settings. Students must identify internship possibilities and have them approved for credit by the faculty member who will serve as instructor of record, and oversee the academic side of the internship. The nature of the internship will vary according to the host institution, but to be accepted for credit, it must have a substantial research component. Examples include but are not limited to: curating an exhibition or permanent collection display; producing wall texts and object labels in an exhibition or permanent collection display; researching and writing a catalog essay or article on an object or objects in an exhibition or permanent collection; preparing catalog entries for works in the permanent collection of a museum/historical society; preparing a dossier for acquisitions; researching conservation histories of objects; preparing teaching materials associated with an exhibition or permanent collection either in print or online; participating in exhibition design; and assisting in editorial work for a museum/exhibition publication in print or online. To fulfill a 3-credit internship, the student must average approximately 12 hours a week throughout the semester, including working at the host institution on individual projects, and performing any necessary research and writing outside the host institution. In addition, the student should meet with the faculty advisor for a minimum of 1 hour each month.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**ART HIST 799 – INDEPENDENT STUDY**

1-6 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**ART HIST 800 – SEMINAR: SPECIAL TOPICS IN ART HISTORY**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ART HIST/AFROAMER 801 – HISTORIOGRAPHY, THEORY AND METHODS IN VISUAL CULTURE**

3 credits.

Prepares student for graduate work in the transdisciplinary study of Visual Cultures by building on the knowledge, theories, and methods that are fundamental to the discipline. It will develop skills in critical reading, research, analysis, writing, and oral presentation.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART HIST/AFROAMER 802 – VISUAL CULTURES: TOPICS IN VISUAL CULTURES**

3 credits.

Content will vary to facilitate in-depth engagement of critical facts, theories, and images in specific areas of specialization.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ART HIST 805 – SEMINAR-ANCIENT ART AND ARCHITECTURE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ART HIST 815 – SEMINAR-MEDIEVAL ART**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ART HIST 825 – SEMINAR-ITALIAN RENAISSANCE ART**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014**ART HIST 835 – SEMINAR-NORTHERN EUROPEAN ART**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**ART HIST 855 – SEMINAR-19TH CENTURY EUROPEAN ART**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ART HIST 856 – GRADUATE SEMINAR IN TWENTIETH CENTURY EUROPEAN ART**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**ART HIST 863 – SEMINAR IN MATERIAL CULTURE**

3 credits.

Interdisciplinary study, at the graduate level, focusing on the way people use objects and environments to express identities and relationships in households, communities, and larger social/economic systems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ART HIST 865 – SEMINAR-AMERICAN ART**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**ART HIST 867 – SEMINAR-AMERICAN ARCHITECTURE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017



**ART HIST 875 – SEMINAR IN JAPANESE ART**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**ART HIST 876 – SEMINAR IN CHINESE ART**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ART HIST 879 – SEMINAR IN AFRICAN ART**

3 credits.

Critical examination of selected theoretical and methodological issues affecting the study of African art and architecture in their historical and cultural perspectives.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**ART HIST 990 – RESEARCH AND THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## ASIAN AMERICAN STUDIES (ASIAN AM)

**ASIAN AM 101 – INTRODUCTION TO ASIAN AMERICAN STUDIES**

3 credits.

Introduction to the historical, sociological, anthropological, political, and cultural study of Americans of Asian ancestry.

**Requisites:** Open to Fr**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ASIAN AM/CHICLA/FOLKLORE 102 – INTRODUCTION TO COMPARATIVE ETHNIC STUDIES**

3-4 credits.

This course introduces students to a multicultural history of the United States, focusing on each of the major ethnic groups: European Americans, African Americans, Native Americans, Chicano/as, Latino/as and Asian Americans.

**Requisites:** Fr and So only; others by cons inst**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ASIAN AM/DANCE 121 – ASIAN AMERICAN MOVEMENT**

3 credits.

Techniques of exercises and movement forms derived from several Asian cultures as taught in the United States. Studied in the context of the construction and expression of ethnic and cultural identity.

**Requisites:** Open to Freshmen**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**ASIAN AM/ENGL 150 – LITERATURE & CULTURE OF ASIAN AMERICA**

3 credits.

Since the 19th century, "America" has often been defined by its relationship with "Asia," through cultural influence, immigration, imperialism, and war. This course traces the role of Asia and Asians in American literature and culture, from the Chinese and Japanese cultural influences that helped shape literary modernism to the rise of a distinctive culture produced by Asian immigrants to America and their descendants.

**Requisites:** None**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**ASIAN AM/HISTORY 160 – ASIAN AMERICAN HISTORY: MOVEMENT AND DISLOCATION**

3-4 credits.

Examines the impact of colonialism, war, and capitalism on the movement of Asians to the U.S. Considers how racial, gendered, class, sexual, and national formations within the U.S. structured Asian immigration to North America.

**Requisites:** Open to Freshmen**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ASIAN AM/HISTORY 161 – ASIAN AMERICAN HISTORY: SETTLEMENT AND NATIONAL BELONGING**

3-4 credits.

Examines the social, cultural, and political citizenship of Asians in the U.S. with particular emphasis on diaspora, transnationality, and place.

**Requisites:** Open to Freshmen**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ASIAN AM/SOC 220 – ETHNIC MOVEMENTS IN THE UNITED STATES**

3-4 credits.

Sociological analysis of historical and recent ethnic/racial conflict and movements in the U.S., including the relations between European Americans, African Americans, Mexican Americans, Native Americans, and Asian Americans, with additional material on other groups and relations.

**Requisites:** Satisfied Communications A requirement**Course Designation:** Gen Ed - Communication Part B

Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ASIAN AM 240 – TOPICS IN ASIAN AMERICAN STUDIES**

3 credits.

An examination of specific themes in Asian American life and culture. Topics may include comparative analyses of Asian American communities, contemporary Asian American experience, and the specific concerns and histories of individual Asian groups in America, such as Korean, Hmong, South Asian, Southeast Asian, Chinese and Japanese.

**Requisites:** So st or cons inst**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ASIAN AM/HISTORY/LCA 246 – SOUTHEAST ASIAN REFUGEES OF THE "COLD" WAR**

4 credits.

In-depth study of the peoples, conflicts, and wars in Cambodia, Laos, and Vietnam, with emphasis on the Cold War era (1945-1990) and on the resulting migration and resettlement of over one million Hmong, Khmer, Lao, and Vietnamese in the United States.

**Requisites:** Open to Fr**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ASIAN AM 260 – TOPICS IN ASIAN AMERICAN CULTURE**

3 credits.

Themes in Asian American arts. Topics may include drama, dance, film, creative writing and visual arts.

**Requisites:** None**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2008**ASIAN AM/ENGL 270 – A SURVEY OF ASIAN AMERICAN LITERATURE**

3 credits.

Survey of Asian American literature from 1880 to present.

**Requisites:** 6 credits of introductory literature or consent of instructor**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015

**ASIAN AM/E A STDS/HISTORY 276 – CHINESE MIGRATIONS SINCE 1500**

3-4 credits.

Introduces the comparative history of Chinese migrations to the U.S. and world. Examines patterns of movement; imagined communities through cultural identity, citizenship, queerness, heritage tourism, studying abroad, and transnational adoption; as well as sites of cultural production such as food, literature, architecture, and cinema.

**Requisites:** Sophomore standing or consent of instructor

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ASIAN AM/COM ARTS 420 – ASIAN AMERICANS AND MEDIA**

3 credits.

Examines representations of Asian American in American media using historical, analytical, and critical approaches. Issues of cultural production, identity, race, politics, and gender are linked to examinations of specific media forms.

**Requisites:** Com Arts 347 or So st

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**ASIAN AM 440 – SPECIAL TOPICS IN THE ASIAN AMERICAN STUDIES PROGRAM**

3 credits.

Topics vary for this course. Please see Asian American website for description for the semester you are taking the course. Topics will have some content about Asian Americans of different ethnic groups (e.g. Hmong, Southeast Asian, East Asian Americans -Japanese, Chinese, Korean, Indian, etc.). THIS COURSE DOES NOT PROVIDE ETHNIC STUDIES CREDIT. THIS COURSE MAY INCLUDE SERVICE LEARNING OR COMMUNITY BASED RESEARCH/FIELD STUDIES ACTIVITIES.

**Requisites:** None

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**ASIAN AM/AFROAMER 443 – MUTUAL PERCEPTIONS OF RACIAL MINORITIES**

3 credits.

Survey course on the mutual perceptions of primarily people of African and Asian ancestry. It focuses on how these groups evaluate perceive and interact with one another and others such as Native Americans, whites and Hispanics. Social psychological perspectives are highlighted as is an international overview.

**Requisites:** Afro-Amer 151 or 673

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ASIAN AM/ENGL 462 – TOPIC IN ASIAN AMERICAN LITERATURE**

3 credits.

Topics will vary. All topics will emphasize the following learning outcomes: awareness of history's impact on the present, ability to recognize and question assumptions, development of critical thinking skills, awareness of relations between self and others, and effective participation in a multicultural society.

**Requisites:** Six (6) credits of introductory literature

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**ASIAN AM/ENGL/GEN&WS 463 – RACE AND SEXUALITY IN AMERICAN LITERATURE**

3 credits.

Explores the intersection between race and sexuality in American literature with an emphasis on sex/gender difference, feminism, transgenderism, and nationalism. Focuses on the nature of literature as advocacy, with an emphasis on Asian-American issues. Students who have taken English 654 prior to fall 2014 may not enroll in this course.

**Requisites:** Sophomore standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**ASIAN AM/ENGL/GEN&WS 464 – ASIAN AMERICAN WOMEN WRITERS**

3 credits.

A study of major texts by Asian American women writers.

**Requisites:** 6 credits of introductory literature or consent of instructor

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**ASIAN AM/ENGL 465 – ASIAN AMERICAN POETRY**

3 credits.

Throughout the history of Asian America, poetry has been a vehicle for the creation and exploration of an Asian American voice; in poetry we can see the continuing struggle over what form Asian American expression will take. Will it follow Asian or European models? Will it employ traditional forms, or experiment in search of new styles? Will it be individual or collective, introspective or political? We will explore these questions through a study of a wide range of Asian American poets from a variety of historical periods and ethnicities, including Janice Mirikitani, Lawson Fusao Inada, Li-Young Lee, John Yau, Myung Mi Kim, and Linh Dinh.

**Requisites:** 6 Credits of introductory literature

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**ASIAN AM 540 – SPECIAL TOPICS**

3 credits.

Social science themes in Asian American studies. Topics may include the family, economics, poverty, inter-racial conflicts and cooperation, South Asian Americans.

**Requisites:** None

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ASIAN AM 560 – HUMANITIES TOPICS**

3 credits.

Topics in the arts and humanities that illuminate the Asian American experience.

**Requisites:** None

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ASIAN AM/JOURN 662 – MASS MEDIA AND MINORITIES**

4 credits.

Representations of minority groups in U.S. news and entertainment mass media. Historical, social, political, economic, and other factors influencing the mass mediated depictions of minorities.

**Requisites:** Junior standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**ASIAN AM 699 – INDEPENDENT STUDY: DIRECTED READINGS IN ASIAN AMERICAN STUDIES**

1-4 credits.

An independent studies course to allow students at an advanced level to pursue individual projects/subjects.

**Requisites:** 9 cr in Asian American studies

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ASIAN LANGUAGES AND CULTURES (ASIAN)****ASIAN LANGUAGES AND CULTURES: LANGUAGES (ASIALANG)****ASTRONOMY (ASTRON)****ASTRON 100 – SURVEY OF ASTRONOMY**

4 credits.

Modern exploration of the solar system; our galaxy of stars, gas and dust; how stars are born, age and die; unusual objects such as exploding stars, neutron stars, black holes, and exploding galaxies; other galaxies and groups of galaxies; current ideas about the large-scale structure and evolution of the universe; optional telescope viewing sessions. Open to all Undergrads. Stdts may not receive cr for both ASTRON 100 either ASTRON 103 or 104. Not open to stdts who meet prereq for ASTRON 200

**Requisites:** Completion of QR-A.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2006

**ASTRON 103 – THE EVOLVING UNIVERSE: STARS, GALAXIES, AND COSMOLOGY**

3 credits.

The universe is vast and ever-changing. Includes lifecycles of stars; supernovae and creation of elements; white dwarfs, pulsars and black holes; the Milky Way and galaxies; distances of stars and galaxies; quasars; expansion of universe; open and closed universes; the big bang. Open to all Undergrads. Stdts may not receive cr for both ASTRON 100 103. Not open to stdts who meet prereq for ASTRON 200

**Requisites:** Completion of QR-A.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ASTRON 104 – OUR EXPLORATION OF THE SOLAR SYSTEM**

3 credits.

Humanity is linked to the solar system in countless ways. Includes the sky and celestial motions; ancient astronomy; the Copernican revolution; gravity, orbits, and interplanetary travel; formation of solar system; survey of sun, planets and moons; asteroids, meteors and comets; origin of life. Open to all Undergrads. Stdts may not receive cr for both ASTRON 100 104

**Requisites:** Completion of QR-A.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ASTRON 113 – HANDS ON THE UNIVERSE**

1 credit.

Exploration of the universe via computer simulation of astronomical observations. Examples of topics include telescopes, the distances to stars, the spectra of the stars, star clusters, the Hubble expansion, and the large scale structure of the universe. Discovery through observation, hypothesis, and quantitative analysis is emphasized. Intended to be taken concurrently with ASTRON 103. Prev ASTRON 100 or ASTRON 103 or cons inst acceptable. Satisfies QR-B only if ASTRON 100 or ASTRON 103 is also completed. Not open to stdts who have taken Astron 110

**Requisites:** Open to all Undergrads.**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ASTRON 114 – HANDS ON THE SOLAR SYSTEM**

1 credit.

Exploration via computer simulation of astronomical observations. Examples of topics include the sky and celestial motions, Jupiter's moons, rocketry, colonization, and extra-solar planets. Naked-eye and telescope observations will also be made. Discovery through observation, hypothesis, and quantitative analysis is emphasized. Intended to be taken concurrently with ASTRON 104. Prev ASTRON 100 or ASTRON 104 or cons inst acceptable. Satisfies QR-B only if ASTRON 104 is also completed. Not open to stdts who have taken Astron 110

**Requisites:** Open to all Undergrads.**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**ASTRON 140 – EARTH 2.0: THE EXOPLANET REVOLUTION**

3 credits.

Our Galaxy contains about 100 billion stars. Most of these stars have planets as diverse and as fascinating as the worlds in our own neighborhood, the solar system. Learn about the study of planets and exoplanets, probing some of the deepest questions science and philosophy grapple with. Explore the ways in which scientists search for and analyze planets orbiting distant stars, both in the classroom and in hands-on laboratory experiences. From moons to super-Jupiters, this course provides an engrossing introduction into the brand new science of exoplanet research.

**Requisites:** Satisfied Quantitative Reasoning A requirement**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**ASTRON 150 – TOPICS IN ASTRONOMY**

2 credits.

This course will intensively study selected topics of modern astronomy. Examples include missions to the planets, formation of stars and planets, end states of stellar evolution (supernovae, white dwarfs, pulsars, black holes), origin and evolution of the universe.

**Requisites:** ASTRON 100, ASTRON 103, or ASTRON 104**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017

**ASTRON/GEOSCI 160 – LIFE IN THE UNIVERSE**

2 credits.

An examination of the origin and evolution of life in the universe based on our knowledge of astronomy, biology, and geology. Includes discussions on the search for extraterrestrial life and the history of life in our solar system.

**Requisites:** Open to all undergrads**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ASTRON 199 – DIRECTED STUDY**

1-3 credits.

Open to Fr

**Requisites:** ASTRON 100 or equiv or cons inst.**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ASTRON 200 – THE PHYSICAL UNIVERSE**

3 credits.

Modern astrophysics involves applying physical principles to understand astronomical phenomena. Includes the solar system, stars, nebulae, galaxies, and cosmology, with emphasis on origins and evolution. Some nighttime observation with telescopes required. Not open to stdts who have taken ASTRON 100 or 103. Simple calculus required

**Requisites:** PHYSICS 202 or 208 or cons inst.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ASTRON/HIST SCI 206 – HISTORY OF ASTRONOMY AND COSMOLOGY**

3 credits.

The development of astronomical knowledge and cosmological views from the earliest times to the present, viewed in their social, philosophical, and technological contexts.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ASTRON 236 – THE HISTORY OF MATTER IN THE UNIVERSE**

3 credits.

Multidisciplinary study of how the distribution of elements in the Universe has changed over the last 10-15 billion years by tracing the history of matter from the Big Bang to the present composition of the Earth. The course will emphasize connections between astronomy, geology, and chemistry. Readings will draw both on scientific journals and the popular press to allow us to engage the material on multiple levels. This course meets the University's Com-B requirement. Open to Fr

**Requisites:** 1 yr college chem or physics, or cons inst.**Course Designation:** Gen Ed - Communication Part B

Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ASTRON 310 – STELLAR ASTROPHYSICS**

3 credits.

Properties of normal and peculiar stars as found from an analysis of the radiation they emit; introduction to radiation transfer. Theory of stellar atmospheres, interiors, and evolution.

**Requisites:** MATH 222 PHYSICS 205 or 241**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ASTRON 320 – THE INTERSTELLAR MEDIUM**

3 credits.

Properties of neutral and ionized interstellar gas, giant molecular clouds, the warm and hot intercloud medium, supernova remnants, and interstellar dust. Physical processes in low density gases including radiation transfer, excitation and ionization of interstellar atoms and molecules, and the interaction between gas and dust.

**Requisites:** MATH 222 and PHYSICS 205 or 241**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ASTRON 330 – GALAXIES**

3 credits.

Distribution of stars, gas, and dust within our Milky Way, and their motions. Nearby galaxies: our Local Group. Optical, radio, and other techniques for observing galaxies. Composition and motions of other galaxies; galaxies with active nuclei; galaxy formation.

**Requisites:** ASTRON 310**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016

**ASTRON 335 – COSMOLOGY**

3 credits.

Introduction to the study of our Universe as a whole. Distribution of matter on the largest scales. Equations for cosmic expansion; making observations in an expanding curved spacetime. Nucleosynthesis and other tests of the Big Bang hypothesis. Gravitational collapse and the growth of structure.

**Requisites:** ASTRON 310**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**ASTRON 340 – SOLAR SYSTEM ASTROPHYSICS**

3 credits.

Properties of solar system objects, solar atmospheric phenomena, physics of planetary atmospheres, results of recent planetary missions, comets, origin of the solar system.

**Requisites:** MATH 222 PHYSICS 205 or 241**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ASTRON 460 – EXPERIENCES IN ASTRONOMICAL OBSERVING**

1 credit.

A basic introduction into astronomical research by undertaking a small observing project with optical and/or radio telescopes. Topics covered are: understanding the astronomical literature, observing and data reduction, writing scientific reports and papers, presenting scientific results, and basics of scientific ethics. One of ASTRON 310, 320, 330, or 500 advised

**Requisites:** Cons inst.**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ASTRON 500 – TECHNIQUES OF MODERN OBSERVATIONAL ASTROPHYSICS**

3 credits.

An introduction to astrophysics data collection. Students will be familiarized with the concepts, techniques, skills and resources needed to plan, obtain, reduce and interpret observations of astronomical objects.

**Requisites:** Grad st or ASTRON 310 cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ASTRON 510 – RADIO ASTRONOMY LABORATORY**

2 credits.

An introduction to the techniques of modern observational radio astronomy. The course covers fundamentals of radio astronomy, modern radio instrumentation, and observing techniques, through a mixture of classroom lectures, discussions, and hands-on observational projects with a small radio telescope.

**Requisites:** Cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2012**ASTRON/E M A 550 – ASTRODYNAMICS**

3 credits.

Coordinate system transformations, central force motion, two body problem, three and n-body problem, theory of orbital perturbations, artificial satellites, elementary transfer orbits, and elementary rocket dynamics.

**Requisites:** EMA 202 or 221; or PHYSICS 311 or con reg; or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ASTRON 620 – SEMINAR IN ASTROPHYSICAL TOPICS**

1-3 credits.

Current problems; topic changes.

**Requisites:** ASTRON 310 or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ASTRON 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ASTRON 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2017



**ASTRON 691 – SENIOR THESIS**

2-3 credits.

**Requisites:** Sr st astronomy-physics major cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ASTRON 692 – SENIOR THESIS**

2-3 credits.

**Requisites:** ASTRON 691 cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**ASTRON 699 – DIRECTED STUDY**

1-6 credits.

5, Jr or Sr st cons inst

**Requisites:** L S Undergrads need 2.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ASTRON 700 – BASIC ASTROPHYSICS I**

2 credits.

Thermodynamics, atomic and molecular spectra, ionization and excitation, line and continuum opacities. Synchrotron radiation, Compton scattering, X-ray spectra. Radiative transfer, simple model atmospheres, radiative and convective energy transport.

**Requisites:** Grad st in astronomy or physics, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ASTRON 702 – BASIC ASTROPHYSICS II**

2 credits.

Basic particle and fluid dynamics of stellar and gaseous systems in astrophysics. Review of gravitational dynamics, 2-body relaxation, phase space, basic equations of fluid dynamics, waves, shocks, winds accretion, instabilities.

**Requisites:** Grad st in astronomy or physics, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ASTRON 715 – STELLAR INTERIORS AND EVOLUTION**

2 credits.

Physical principles, equilibrium of gaseous spheres, energy transport, energy generation, nucleosynthesis, main sequence red giant and electron degenerate stars. Advanced topics such as origins of stellar variability, binary star evolution, star formation, supernovae explosions, evolution with mass loss.

**Requisites:** ASTRON 700 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ASTRON 720 – THE INTERSTELLAR MEDIUM I: BASIC PROCESSES**

2 credits.

Observational techniques for interstellar medium studies, overview of the role of interstellar gas in galaxies, dynamics, energetics, major theories of structure and evolution, introduction to star formations and supernova remnant evolution.

**Requisites:** ASTRON 700**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**ASTRON 730 – GALAXIES**

2 credits.

Stellar content and dynamics of the Milky Way and other galaxies; galaxy types, evolution of normal galaxies, active nuclei, quasars, radio galaxies.

**Requisites:** Grad st in Astron or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ASTRON 735 – OBSERVATIONAL COSMOLOGY**

2 credits.

Extragalactic distance scale; groups and clusters of galaxies; distribution of galaxies and radio sources. Introduction to general relativity, cosmological models, microwave background, early universe, galaxy formation.

**Requisites:** Grad st in Astron or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**ASTRON/PHYSICS 910 – SEMINAR IN ASTROPHYSICS**

1 credit.

Current topics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**ASTRON 920 – SEMINAR-ASTROPHYSICAL TOPICS**

1-3 credits.

Current problems; topic changes.

**Requisites:** Grad st in astron or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**ASTRON 990 – RESEARCH AND THESIS**

1-12 credits.

**Requisites:** Grad st in astron**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ASTRON 999 – ADVANCED INDEPENDENT READING**

1-2 credits.

**Requisites:** Grad st in astron**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2008**ATMOSPHERIC AND OCEANIC  
SCIENCES (ATM OCN)****ATM OCN 100 – WEATHER AND CLIMATE**

3 credits.

Nature and variability of wind, temperature, cloud and precipitation. Storm systems, fronts, thunderstorms, tornadoes and their prediction. Air composition and pollution. Global winds, seasonal changes, climate and climatic change. Stdts may not receive cr for both Atm Ocn 100 101

**Requisites:** Open to Fr.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ATM OCN 101 – WEATHER AND CLIMATE**

4 credits.

Nature and variability of wind, temperature, clouds and precipitation. Discussion session will include map analyses and basic quantitative lab exercises. Storm systems, fronts, thunderstorms, tornadoes and their prediction. Air composition and pollution. Global winds, seasonal changes, climate and climatic change. Stdts may not receive cr for both Atm Ocn 100 101

**Requisites:** Open to Fr.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ATM OCN/ENVIR ST/GEOSCI 102 – CLIMATE AND CLIMATE CHANGE**

3 credits.

This course describes the basic climate principles governing the climate system. It describes the climate and climate variability at present, climate evolution in the past, and the projected climate change into the future. The scientific principles underlying the natural and anthropogenic greenhouse effect and climate model forecasts are elucidated.

**Requisites:** None**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**ATM OCN/GEOSCI 105 – SURVEY OF OCEANOGRAPHY**

3-4 credits.

Nature and behavior of ocean water, interaction of oceans and atmosphere, structure of the ocean floor, life in the oceans, our relationship to the marine environment. Open to Freshmen

**Requisites:** High school physics or chem recommended.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ATM OCN/ENVIR ST/GEOG 121 – ATMOSPHERIC ENVIRONMENT AND SOCIETY**

2 credits.

Changing interactions between humans, other animals and plants, and the atmospheric environment, both in time and space.

**Requisites:** Open to Fr**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2009

**ATM OCN/SOIL SCI 132 – EARTH'S WATER: NATURAL SCIENCE AND HUMAN USE**

3 credits.

Water is central to the functioning of planet Earth. As humans increase their impact on Earth's systems and cohabitants, our understanding of the multiple roles of water becomes critical to finding sustainable strategies for human and exosystem health. This course explores the science of Earth's hydrosphere, with constant attention to human uses and impacts. Open to Fr

**Requisites:** HS math science.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ATM OCN/GEOSCI 140 – NATURAL HAZARDS AND DISASTERS**

3 credits.

An exploration of the science behind natural disasters including earthquakes, tsunamis, volcanic eruptions, landslides, tornadoes, hurricanes, and floods. Why, where, and when do these events occur, and why are some predictable but others are not? The course will also address hazard assessment, forecasting, and mitigation to lessen their impact on society.

**Requisites:** None**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ATM OCN/ENVIR ST 171 – GLOBAL CHANGE: ATMOSPHERIC ISSUES AND PROBLEMS**

2-3 credits.

Atmospheric problems of global significance. Greenhouse warming, ozone layer, acid rain, climate change. Study based on elementary principles of atmospheric science. Systems approach applied to changing atmospheric composition. Interactions among geochemical cycles, anthropogenic inputs and other parts of the environment.

**Requisites:** None**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ATM OCN 252 – INTRODUCTION TO WEATHER ANALYSIS AND FORECASTING**

3 credits.

Elementary issues in dynamics, thermodynamics, local and synoptic-scale circulations examined in the context of daily diagnoses and forecasting of the weather. Includes analysis of surface and upper air observations, satellite and radar data, output from numerical weather prediction models. Open to Fr

**Requisites:** PHYSICS 201 or 207, MATH 221 or cons inst.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2006**ATM OCN 310 – DYNAMICS OF THE ATMOSPHERE AND OCEAN I**

3 credits.

Introduction to theory of fluid motions for atmosphere and ocean. Elementary kinematics, fundamental forces, effects of earth's gravity and rotation, concepts and applications of hydrostatic and geostrophic balance.

**Requisites:** PHYSICS 208 or con reg MATH 234 or con reg**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ATM OCN 311 – DYNAMICS OF THE ATMOSPHERE AND OCEAN II**

3 credits.

Intermediate theory of fluid motions for atmosphere and ocean. Emphasis on large scale applications and basic theory for geophysical wave types. Thermal wind shear, frictional flow, vorticity concepts, Rossby waves, Sverdrup ocean flow.

**Requisites:** Atm Ocn 310, 330**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ATM OCN/GEOG 323 – SCIENCE OF CLIMATE CHANGE**

3 credits.

This is a calculus-based treatment of climate system physics and the mechanisms of modern-day anthropogenic climate change. By the end of this course, students will understand: a. How solar radiation and rotating fluid dynamics determine the basic climate state; b. Mechanisms of natural variability and change in climate; c. Why anthropogenic climate change is occurring; and d. Which scientific uncertainties are most important to estimates of 21st century change. Not open to students who have enrolled in ATM OCN 425

**Requisites:** PHYS 103, 201 or 207; and MATH 217, 221 or 275.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016

**ATM OCN 330 – PHYSICS OF THE ATMOSPHERE AND OCEAN I**

3 credits.

Physical variables, laws, characteristics and direct measurements for atmosphere and ocean. Thermodynamics and moist atmospheric processes. Basic physics of clouds, precipitation, and chemical constituents.

**Requisites:** PHYSICS 208 or con reg MATH 234 or con reg

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ATM OCN/ENVIR ST/GEOG 332 – GLOBAL WARMING: SCIENCE AND IMPACTS**

3 credits.

Climate change is underway and will continue into the foreseeable future. This course offers a fundamental understanding of how and why global warming is happening, and what to expect in the future. Together, we will investigate and discuss the evidence for change, the science that explains these observations, predicted impacts on humans and ecosystems, and the societal debate over proposed solutions. Freshmen permitted only with consent of instructor

**Requisites:** Geog/IES 120 or 127 or Atm Ocn 100 or equivalent recommended.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ATM OCN/ENVIR ST/GEOG/GEOSCI 335 – CLIMATIC ENVIRONMENTS OF THE PAST**

3 credits.

Climatic change at timescales from the last 1,000,000 years to the last 1000 years. Examines how climate variability arises from interplay between external forcings, feedbacks within the earth system, and (more recently) human activity.

**Requisites:** ENVIR ST/GEOG/ENVIR ST 120, ENVIR ST/GEOG/ ENVIR ST 127, or ATM OCN 100

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ATM OCN 340 – PHYSICS OF THE ATMOSPHERE AND OCEAN II**

3 credits.

Radiation, energy budget, and cloud physics. Scattering, absorption, emission and diabatic heating by shortwave and longwave processes. Introduction to cloud physics including cloud nucleation processes, particle growth, precipitation development, and convective cloud processes.

**Requisites:** Atmospheric-Oceanic 330

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ATM OCN 401 – TOPICS IN METEOROLOGY**

2-3 credits.

Special topics to be given as the need and opportunity arise. May be repeated for credit.

**Requisites:** None

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ATM OCN 404 – METEOROLOGICAL MEASUREMENTS**

2 credits.

Practical experience in planning experiment implementation, performing instrument quality control, conducting computational data analysis, and writing and presenting of meteorological and climatological observations in a team setting.

**Requisites:** Consent of instructor

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**ATM OCN 405 – AOS SENIOR CAPSTONE SEMINAR**

1 credit.

Required senior seminar for AOS majors provides a synthesis and overview. Research on a topic of the student's choosing is presented at the end.

**Requisites:** Atm Ocn 310, 311, 330, 340

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ATM OCN 425 – GLOBAL CLIMATE PROCESSES**

3 credits.

Overview of physical processes of the atmosphere and its coupling to the ocean and land. Understanding its seasonal climatology and variability. Synthesis through application of junior AOS core dynamics and physics to quantitatively understand diabatic, transport, and dissipative processes. Examples include global warming, air-ocean coupling, ENSO, ozone hole, tropospheric water and chemistry issues, diurnal to interannual time scales.

**Requisites:** Atm Ocn 311, 340, or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ATM OCN 441 – RADAR AND SATELLITE METEOROLOGY**

3 credits.

Provides undergraduate students with the necessary knowledge about radar and satellite meteorology.

**Requisites:** Atm Ocn 340 or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ATM OCN 452 – SYNOPTIC LABORATORY I: THE FRONTAL CYCLONE**

4 credits.

Cyclone and frontal theory; case studies illustrating the structure and evolution of the frontal cyclone; diagnostic techniques: interpretation of satellite photographs, preparation of vertical cross sections and isentropic analysis.

**Requisites:** Atm Ocn 311 340, or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ATM OCN 453 – SYNOPTIC LABORATORY II: MESOSCALE METEOROLOGY**

4 credits.

Local wind systems, thunderstorms, mesoscale convection systems, interactions with synoptic scale weather. Analysis, prediction, nowcasting and observation of mesoscale weather, including interpretation of satellite and radar information.

**Requisites:** Atm Ocn 311 340, or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ATM OCN 455 – SEVERE STORM FORECASTING AND OBSERVATION**

1 credit.

Application of severe storm forecasting and nowcasting techniques under operational conditions. Severe storm observation and photography (storm chasing), application in the field.

**Requisites:** Atm Ocn 453 or cons inst

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2011

**ATM OCN 508 – TEACHER WORKSHOP IN SATELLITE METEOROLOGY**

1-2 credits.

This workshop is designed to address the professional development needs for K-12 science teachers.

**Requisites:** None

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2014

**ATM OCN 509 – TEACHER WORKSHOP IN EARTH SYSTEM SCIENCE - WEB**

1-3 credits.

These courses are designed to address the professional development needs for K-12 science teachers in the earth and space sciences. Topics will be designed to meet the Wisconsin State Science standards and be presented by science and education experts.

**Requisites:** Cons inst

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2013

**ATM OCN/ENVIR ST 520 – BIOCLIMATOLOGY**

3 credits.

How climate systems and biological organisms operate and interact at the global scale and the implications of this for climate change, ecosystem ecology and human land use.

**Requisites:** Junior standing and ATM OCN 101, ATM OCN 252 or ATM OCN/GEOG 323, and BIOLOGY/BOTANY/ZOOLOGY 152

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ATM OCN 522 – TROPICAL METEOROLOGY**

3 credits.

Characteristics of the tropical atmosphere; local and diurnal phenomena; tropical synoptic systems; circulation and energetics; mechanisms of tropical climate variations.

**Requisites:** Atm Ocn 311, 340

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ATM OCN/ENVIR ST/GEOG 528 – PAST CLIMATES AND CLIMATIC CHANGE**

3 credits.

Climatic change throughout geologic time, especially in the last 10 millennia; mechanisms of change, evidence, and criteria, paleogeography and paleoclimatology, climate models.

**Requisites:** Jr st or one year calculus-based college physics or introduction to weather and climate; or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**ATM OCN/AGRONOMY/SOIL SCI 532 – ENVIRONMENTAL BIOPHYSICS**

3 credits.

Plant-environment interactions with particular reference to energy exchanges and water relations. Models are used to provide a quantitative synthesis of information from plant physiology, soil physics, and micrometeorology with some consideration of plant-pest interactions.

**Requisites:** Intro calc, PHYSICS 103, BOTANY/BIOLOGY 130 comp programng; or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ATM OCN/ENVIR ST 535 – ATMOSPHERIC DISPERSION AND AIR POLLUTION**

3 credits.

Physical principles of atmospheric transport processes. Variation of transport in time and place. Local and regional concentrations of pollutants. Environmental implications of air pollution and control strategies.

**Requisites:** Math 212, PHYSICS 202, or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ATM OCN 573 – COMPUTATIONAL METHODS IN ATMOSPHERIC AND OCEANIC SCIENCES**

2 credits.

Provides students with an introduction to multiple programming languages and technical computing methods used in the Atmospheric and Oceanic Sciences. Data analysis methods and software development for specialized applications related to the field are also highlighted.

**Requisites:** MATH 234 and (COMP SCI 301 or COMP SCI 302)

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ATM OCN 575 – CLIMATOLOGICAL ANALYSIS**

3 credits.

Mathematical and statistical tools applicable to the investigation of climatological problems; nature and treatment of climatological data.

**Requisites:** Atm Ocn 311 340, or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ATM OCN 601 – CHALLENGING PROBLEMS OF ATMOSPHERIC AND OCEANIC SCIENCES**

2-3 credits.

Individual staff members weave detailed subjects into the general fabric of the physical environment.

**Requisites:** Cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2010

**ATM OCN 610 – GEOPHYSICAL FLUID DYNAMICS I**

3 credits.

Basic dynamic concepts: equations of motion, basic approximations, Coriolis force, wave motions, normal modes, gravity waves, frictional turbulence and convective processes, geostrophic adjustment, scaling argument, effects of rotation on wave motions. Vorticity and potential vorticity.

**Requisites:** PHYSICS 208, MATH 234 cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**ATM OCN 611 – GEOPHYSICAL FLUID DYNAMICS II**

3 credits.

Quasi-geostrophic motion, potential vorticity equations, E-P fluxes, Rossby waves, boundary layer processes, wind-driven ocean circulation and western boundary currents, barotropic and baroclinic instability, tropical flows.

**Requisites:** Atm Ocn 610 or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ATM OCN 615 – LABORATORY IN ROTATING FLUID DYNAMICS**

1 credit.

Rotating fluid experiments, theory and data analysis are used to deepen understanding of geophysical fluid dynamics and observed phenomena in the atmosphere and ocean. The course will be primarily in the laboratory -- focusing on hands-on experiences in the rotating tank lab and with real data.

**Requisites:** ATM OCN 311 or ATM OCN 610**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**ATM OCN 630 – INTRODUCTION TO ATMOSPHERIC AND OCEANIC PHYSICS**

3 credits.

Graduate level core course, covering thermodynamics theory of multiphase systems, thermodynamic analysis of atmosphere, microphysical processes in the atmosphere, atmospheric and oceanic chemical processes, conduction of heat and moisture into the atmosphere from ocean and land surface.

**Requisites:** PHYSICS 208, MATH 234 cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ATM OCN 637 – CLOUD PHYSICS**

3-4 credits.

Processes of cloud formation, growth, and dissipation from the standpoint of both the cloud particles and the whole cloud as a dynamic entity.

**Requisites:** Atm Ocn 311 340, or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2014**ATM OCN 638 – ATMOSPHERIC CHEMISTRY**

3 credits.

Evolution of the atmosphere, chemical structure, instrumental analysis, trace gases, aerosol mechanics, chemical processes.

**Requisites:** One year calculus-based college physics, chemistry, and calculus for science majors, or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**ATM OCN 640 – RADIATION IN THE ATMOSPHERE AND OCEAN**

3 credits.

Graduate level core course in radiation. Introduction to basic laws, radiative transfer under clear sky conditions, scattering by individual particles, multiple scattering, radiative properties of clouds and aerosols, energy budget, miscellaneous applications.

**Requisites:** PHYSICS 208, MATH 234 cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ATM OCN 650 – ANALYSIS OF ATMOSPHERIC SYSTEMS**

3 credits.

Graduate level core lab and lecture course designed to quantitatively analyze, descriptively define and physically interpret atmospheric structures, climate and flow systems depicted by observations on scales ranging from the global circulation to those of turbulence in the planetary boundary layer. Observation and analysis strategies.

**Requisites:** Atm Ocn 610, 630 or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2010**ATM OCN 651 – SYNOPTIC-DYNAMIC LABORATORY**

3 credits.

Quantitative lab applications of atmospheric dynamics and thermodynamics to synoptic systems. Jet stream systems, cyclone development, global air motions, performance of numerical prediction models, local surface forecasting.

**Requisites:** Atm Ocn 610 630 cons inst, or Atm Ocn 650**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015

**ATM OCN 660 – INTRODUCTION TO PHYSICAL OCEANOGRAPHY**

3 credits.

Physical properties of sea water: ocean climatology, water, salt and heat budget, measurements, ocean circulation and water mass of the world ocean, thermocline, thermohaline, equatorial ocean and southern ocean.

**Requisites:** PHYSICS 208, MATH 234 cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ATM OCN 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ATM OCN 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ATM OCN 691 – SENIOR THESIS**

2-3 credits.

**Requisites:** A) atm ocn major; B) Atm Ocn 311, 340 or con reg; C) approval Assoc Chairman of Undergrad Affairs**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ATM OCN 692 – SENIOR THESIS**

2-3 credits.

**Requisites:** A) atm ocn major; B) Atm Ocn 311, 340 or con reg; C) approval Assoc Chairman of Undergrad Affairs**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ATM OCN 698 – DIRECTED STUDY**

1-5 credits.

Offered on a Cr/N grading basis. Does not count toward Grad residence credit.

**Requisites:** Jr or Sr st; requires cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ATM OCN 699 – DIRECTED STUDY**

1-5 credits.

Graded on a lettered basis; requires cons inst

**Requisites:** Jr or Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ATM OCN/CIV ENGR 701 – THE CHEMISTRY OF AIR POLLUTION**

2 credits.

The course will cover background and modern research methods for the application of chemical analysis tools to understanding of the origin, composition, and the chemical transformations of pollutants that occur in the atmosphere. Emphasis will be directed at the pollutants impacting human health, climate change, and ecosystem degradation. Approximately half of the course materials will be taken from the scientific literature and will provide the opportunity to advance skills in the critical reading of journal articles. The course is directed at graduate students conducting research and interested in air pollution and environmental chemistry. As part of the course, students will gain experience in presenting scientific research methods and results related to course materials.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**ATM OCN 705 – THE MIDDLE ATMOSPHERE**

3 credits.

Dynamics, chemistry and radiation of the stratosphere and mesosphere. Structure and composition. Observing techniques. Gravity, Rossby, and Kelvin waves. Wave-mean flow interaction. Instabilities. Tracer transport. Modeling the middle atmosphere. Ozone layer. Greenhouse effect.

**Requisites:** Atm Ocn 610, 630 or equiv**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ATM OCN 712 – GENERAL CIRCULATION OF THE ATMOSPHERE**

3 credits.

The theory of the general circulation with emphasis on the sources, sinks, and transport of mass, angular momentum, and energy that serve to maintain the circumpolar vortex.

**Requisites:** Atm Ocn 610, 630 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014

**ATM OCN 718 – DYNAMICS OF MOIST CONVECTIVE SYSTEMS**

3 credits.

Governing equations for non-hydrostatic dynamics, mixed phase thermodynamics and microphysics. Cumulus parameterization and scale interactions. Application to theoretical and numerical models of thunderstorms (and attendant weather phenomena) and Mesoscale Convective Systems in the extra tropics and tropics.

**Requisites:** Atm Ocn 610, 630**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**ATM OCN 740 – ADVANCED ATMOSPHERIC RADIATION**

3 credits.

The course deals with advanced topics in atmospheric radiative transfer. These include numerical methods to solve the radiative transfer equation, theory of scattering by spherical and non-spherical particles and advanced topics in gas absorption.

**Requisites:** Atm Ocn 640**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2013**ATM OCN/ENVIR ST 745 – METEOROLOGICAL SATELLITE APPLICATIONS**

2-3 credits.

Use of satellite imagery and measurements in meteorological research and operations; orbital characteristics; navigation; instrumentation.

**Requisites:** Atm Ocn 640 or 1 yr calc-based college physics MATH 234**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ATM OCN/ENVIR ST/GEOSCI/ZOOLOGY 750 – PROBLEMS IN OCEANOGRAPHY**

3 credits.

Introduction to techniques used in the study of the biology, chemistry, geology, and physics of the marine environment.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**ATM OCN 760 – LARGE-SCALE OCEAN-ATMOSPHERE COUPLING**

3 credits.

Various aspects of global ocean-atmosphere coupling and climate variability; global surface flux distribution; mixed layer dynamics; tropical dynamics and El Nino and Southern Oscillation; extratropical ocean-atmosphere coupling; interannual to interdecadal climate variability.

**Requisites:** Atm Ocn 611 660, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**ATM OCN 761 – DYNAMICS OF OCEAN CIRCULATION**

3-4 credits.

Theories of general oceanic circulation: Sverdrup flow, western boundary layer; thermocline circulation, recirculation theory, ventilated thermocline theory; thermohaline circulation, abyssal flow, thermohaline instability and multiple equilibria.

**Requisites:** Atm Ocn 610, 660**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2012**ATM OCN 771 – NUMERICAL MODELING IN METEOROLOGY**

3 credits.

Advanced techniques for development of meteorological numerical models. Survey of existing models for general circulation, operational weather prediction, mesoscale convection, and turbulence with emphasis on numerical methods and solution accuracy.

**Requisites:** Atm Ocn 610, 630 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2011**ATM OCN 773 – BOUNDARY LAYER METEOROLOGY**

3 credits.

Observations of and theories for boundary layers, turbulence, spectra, plumes, dust devils, convection, terrain effects, and other phenomena in the lowest 2 km of the atmosphere.

**Requisites:** Atm Ocn 311, 340; or 610, 630**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ATM OCN 801 – TOPICS IN THEORETICAL METEOROLOGY**

2-3 credits.

Advanced level subjects in dynamics, synoptics, climate-dynamics and atmospheric physics including recent advances.

**Requisites:** Graduate level gen meteor consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**ATM OCN 900 – SEMINAR-METEOROLOGY**

1-2 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**ATM OCN/BOTANY/CIV ENGR/ENVIR ST/GEOSCI/ZOOLOGY 911 – LIMNOLOGY AND MARINE SCIENCE SEMINAR**

1 credit.

Sections in various fields of zoological research.

**Requisites:** Grad st in limnology marine sci grad prgm or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ATM OCN 915 – SEMINAR-DYNAMICS**

1-2 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012**ATM OCN/ENVIR ST 925 – SEMINAR-CLIMATOLOGY**

1-2 credits.

Historical climatology with emphasis on the last few centuries.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ATM OCN 935 – SEMINAR-PHYSICAL METEOROLOGY**

1-2 credits.

Topics in physical meteorology are explored at an advanced graduate level, including severe storms, cloud physics and atmospheric chemistry, depending on instructor.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**ATM OCN 945 – RADIATION AND REMOTE SENSING SEMINAR**

1-2 credits.

Topics in radiation and remote sensing of the atmosphere and ocean. Emphasis will be on current and classical problems in radiative transfer and remote sensing.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2013**ATM OCN/AGRONOMY/BOTANY/ENTOM/ENVIR ST/F&W ECOL/GEOG/ZOOLOGY 953 – INTRODUCTION TO ECOLOGY RESEARCH AT UW-MADISON**

1-2 credits.

This seminar course will introduce new graduate students to the diversity of ecologists across the UW-Madison campus. Course meetings will include discussions of key topics in professional development, research presentations by faculty members, and discussions of assigned papers with senior graduate students.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ATM OCN 955 – SEMINAR - WEATHER SYSTEMS**

1-2 credits.

Topics in weather systems are explored at an advanced graduate level, including problems in synoptics, mesoscale, and micrometeorological weather phenomena, depending on instructor.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2008**ATM OCN 965 – SEMINAR-OCEANOGRAPHY**

1-2 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ATM OCN/BOTANY/ENVIR ST/F&W ECOL/GEOG/GEOSCI/ZOOLOGY 980 – EARTH SYSTEM SCIENCE SEMINAR**

1 credit.

Topics in earth system science. Emphasis on the coupling between atmospheric, oceanic and land surface systems, involving physical geochemical and biological processes, and including interactions with human systems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ATM OCN 990 – RESEARCH**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**ATM OCN 999 – ADVANCED INDEPENDENT STUDY**

1-6 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

## BIOMOLECULAR CHEMISTRY (BMOLCHEM)

**BMOLCHEM 314 – INTRODUCTION TO HUMAN BIOCHEMISTRY**

3 credits.

Lectures and conferences on introductory aspects of biological chemistry with an emphasis on providing a broad overview of both basic and clinical aspects of human biochemistry for health professionals.

**Requisites:** CHEM 104 or 108 or equiv

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**BMOLCHEM 503 – HUMAN BIOCHEMISTRY**

3 credits.

Lectures and conferences on basic principles of biological chemistry with emphasis on its application to the medical sciences.

**Requisites:** CHEM 341 or 343 or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**BMOLCHEM 504 – HUMAN BIOCHEMISTRY LABORATORY**

3 credits.

Introduction to basic biochemistry and molecular biology lab techniques through investigation of an enzyme involved in human metabolism.

**Requisites:** BIOCHEM 501, 507, 508, BMOLCHEM 503, or graduate standing

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**BMOLCHEM/B M I/BIOCHEM/MATH 606 – MATHEMATICAL METHODS FOR STRUCTURAL BIOLOGY**

3 credits.

Intended to provide a rigorous foundation for mathematical modeling of biological structures. Mathematical techniques include ordinary and partial differential equations, 3D Fourier analysis and optimization. Biological applications include protein folding, molecular dynamics, implicit solvent electrostatics, and molecular interactions.

**Requisites:** (MATH 234 or 320) and (COMP SCI 301 or 302)

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**BMOLCHEM/B M I/BIOCHEM/MATH 609 – MATHEMATICAL METHODS FOR SYSTEMS BIOLOGY**

3 credits.

Intended to provide a rigorous foundation for mathematical modeling of biological systems. Mathematical techniques include dynamical systems and differential equations. Applications to biological pathways, including understanding of bistability within chemical reaction systems, are emphasized.

**Requisites:** MATH 340 or 341; MATH 415, or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**BMOLCHEM/CHEM 627 – METHODS AND TECHNOLOGIES FOR PROTEIN CHARACTERIZATION**

2-3 credits.

This course seeks to engage students interested in chemical instrumentation and those who desire to apply proteomic technologies to current biological problems. Understanding the current proteomics landscape, the limitations of these technologies, and their practical applications are among the course learning objectives.

**Requisites:** Graduate standing

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015



**BMOLCHEM/MICROBIO 668 – MICROBIOLOGY AT ATOMIC RESOLUTION**

3 credits.

Three-dimensional protein structures form the basis for discussions of high resolution microbiology; how particular problems are solved with given protein architectures and chemistries and how themes of protein structure are modified and recycled. g. BIOCHEM 501), molecular biol (e.g. Bact 526 or 612) required, one semester of physical chem preferred  
**Requisites:** Biochem (e.

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
 Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BMOLCHEM 675 – ADVANCED OR SPECIAL TOPICS IN BIOMOLECULAR CHEMISTRY**

1-3 credits.

**Requisites:** Cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
 Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**BMOLCHEM 699 – SPECIAL RESEARCH PROBLEMS**

1-6 credits.

Conferences.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**BMOLCHEM/BIOCHEM 701 – PROFESSIONAL RESPONSIBILITY**

1 credit.

Training for the practical aspects of being a scientist. Will cover ethics, peer review, grant writing, science communication, career alternatives, paper writing, experimental design, research documentation, science funding, academic-private interface, scientific fraud, and more.

**Requisites:** Admission to the IPIB grad program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BMOLCHEM 704 – COMPREHENSIVE HUMAN BIOCHEMISTRY**

5 credits.

Lectures, conferences, and lab. Comprehensive basics in the chemistry, enzymology, and metabolism of living systems, with emphasis on the biochemical aspects of function and control. Crse open to stdnts registered in Med School

**Requisites:** Org chem, physics zool.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**BMOLCHEM/BIOCHEM 710 – EXPLORING BIOCHEMICAL FUNCTION OF MACROMOLECULES**

2 credits.

Required for first-year IPIB graduate students, this course focuses on topics and approaches applicable to an in-depth understanding of fundamental biochemical research.

**Requisites:** Graduate standing consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**BMOLCHEM 720 – EXPERIMENTAL DESIGN AND PARADIGMS IN CELLULAR BIOCHEMISTRY AND MOLECULAR BIOLOGY**

3 credits.

A literature-based course taught in module format and covering the following areas from historical to modern contexts: biochemistry of post-translational modification of proteins, model organisms, transcriptional switches, chromosome replication, and RNA in biological regulation.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BMOLCHEM 901 – BIOMOLECULAR CHEMISTRY SEMINAR**

1 credit.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**BMOLCHEM/BIOCHEM 913 – SEMINAR-RIBOGROUP (ADVANCED)**

1 credit.

Student-led discussions of RNA-related problems.

**Requisites:** Biochem 603 or equiv, GENETICS 466 or equiv; cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017



**BMOLCHEM/BIOCHEM/M M & I/MICROBIO 914 – SEMINAR-MOLECULAR BIOSCIENCES (ADVANCED)**

1 credit.

During the fall semester, molecular biosciences trainees who have not achieved dissertator status will present seminars based primarily on literature related to their projects. During the spring semester, molecular biosciences trainees with dissertator status will present seminars based upon their own research.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**BMOLCHEM 990 – ADVANCED BIOMOLECULAR CHEMISTRY AND RESEARCH**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**BIOCHEMISTRY (BIOCHEM)****BIOCHEM 1 – COOPERATIVE EDUCATION/CO-OP IN BIOCHEMISTRY**

1 credit.

Full-time off-campus work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career. Students receive credit only for the term in which they are actively enrolled and working. The same work experience may not count towards credit in Biochemistry 399.

**Requisites:** So st, and consent of supervising instructor and academic advisor.**Repeatable for Credit:** Yes, unlimited number of completions**BIOCHEM 100 – BIOCHEMISTRY FRESHMAN SEMINAR**

1 credit.

The Freshman Biochemistry Seminar will introduce freshmen to the discipline of biochemistry, to the UW Biochemistry Department, to some of the research projects the faculty are pursuing, to the University, and to the career options open to an individual with a biochemistry undergraduate degree..

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Spring 2017**BIOCHEM 104 – MOLECULAR MECHANISMS, HUMAN HEALTH & YOU**

3 credits.

Students in the course will be introduced to the fundamentals of genetics and evolution, and with this foundation we will discuss "big-picture issues" in public health and epidemiology. Specifically, we will discuss the building blocks of the cell, how information is processed from DNA into protein, and how cellular processes are regulated. Current and medically relevant topics such as cancer, inflammation, infections, depression and drug addiction will provide the framework for further discussion of topics such as the regulation of gene expression and cellular metabolism. A major goal of this course is for students to learn about their own health and to be able to explore and question science articles they find in the mainstream media.

**Requisites:** None**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**BIOCHEM 289 – HONORS INDEPENDENT STUDY**

1-2 credits.

Inter-Ag 288

**Requisites:** Enrolled in the CALS Honors Prgm So or Jr st.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**BIOCHEM 299 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Open to Fr, So or Jr st written cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**BIOCHEM 375 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Consent of instructor**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**BIOCHEM 399 – COORDINATIVE INTERNSHIP/COOPERATIVE EDUCATION**

1-8 credits.

**Requisites:** So, Jr or Sr st cons suprvsg inst, advisor, and intrshp prog coordinator**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2015

**BIOCHEM 400 – STUDY ABROAD IN BIOCHEMISTRY**

1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. W.-Madison Study Abroad Program

**Requisites:** Current registration in a U.**Repeatable for Credit:** Yes, unlimited number of completions**BIOCHEM 501 – INTRODUCTION TO BIOCHEMISTRY**

3 credits.

Chemistry, nutrition, and metabolism of biological systems.

**Requisites:** CHEM 341 or 343 or concurrent enrollment; or graduate student**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**BIOCHEM 507 – GENERAL BIOCHEMISTRY I**

3 credits.

Chemistry of biological materials, intermediary metabolism and protein structure. First semester of a year-long sequence in biochemistry; Biochemistry 508 is offered in the spring. This course is designed and recommended for undergraduate Biochemistry majors, but others are welcome.

**Requisites:** CHEM 345**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**BIOCHEM 508 – GENERAL BIOCHEMISTRY II**

3-4 credits.

Biosynthesis of biological molecules, signal transduction mechanisms, chemistry and metabolism of nucleic acids, protein synthesis, and molecular and cellular biology. Honors credits available with consent of instructor

**Requisites:** A grade of BC or higher in BIOCHEM 507, or consent of instructor.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**BIOCHEM/NUTR SCI 510 – BIOCHEMICAL PRINCIPLES OF HUMAN AND ANIMAL NUTRITION**

3 credits.

Lectures in nutrition for students with a substantial background in biochemistry. Emphasis on biochemical and physiological fundamentals of nutrition. Discussion of protein, fat, carbohydrate, energy, minerals and vitamins and their roles and interrelationships in nutrition and metabolism.

**Requisites:** (BMOLCHEM 314 or 503) or (BIOCHEM 501 or 507)**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**BIOCHEM 511 – UNDERGRADUATE SEMINAR**

1 credit.

Required of all senior undergraduate majors in biochemistry. Required of all senior undergrad Biochem majors

**Requisites:** BIOCHEM 501 or 507 508 or cons inst.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2010**BIOCHEM 550 – TOPICS IN MEDICAL BIOCHEMISTRY**

2 credits.

Lectures. Biochemical and molecular analysis of selected human diseases. Topics will include lipid metabolism and atherosclerosis, cell cycle regulation and oncogene function in cancer, and human immunodeficiency virus (HIV) structure, life cycle, and mechanism of acquired immunodeficiency disease syndrome (AIDS).

**Requisites:** Must have completed BIOCHEM 501 or BIOCHEM 507.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**BIOCHEM 551 – BIOCHEMICAL METHODS**

4 credits.

Lab and student seminar. Introduction to modern biochemical laboratory techniques and current biochemical literature. Students will present a seminar based upon scientific literature that parallels experiments they will perform in lab. For advanced undergraduates and non-biochemistry graduate students.

**Requisites:** BIOCHEM 501 or BIOCHEM 507 or concurrent enrollment**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**BIOCHEM/M M & I 575 – BIOLOGY OF VIRUSES**

2 credits.

Lecture-discussion. Broad coverage of animal virology taught at molecular level. Topics include virus structure, viral replication/lifecycle, aspects of pathogenesis and prevention.

**Requisites:** Biocore 301/302, or AP score of 4 or 5 and ZOOLOGY/BIOLOGY/BOTANY 151 or 152; or MMI 301

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BIOCHEM 601 – PROTEIN AND ENZYME STRUCTURE AND FUNCTION**

2 credits.

Protein structure and dynamics. Protein folding. Physical organic chemistry of enzymatic catalysis. Analysis of enzyme kinetics and receptor-ligand interactions. Enzymatic reaction mechanisms.

**Requisites:** CHEM 345 and (BIOCHEM 501 or 507)

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BIOCHEM/B M I/BMOLCHEM/MATH 606 – MATHEMATICAL METHODS FOR STRUCTURAL BIOLOGY**

3 credits.

Intended to provide a rigorous foundation for mathematical modeling of biological structures. Mathematical techniques include ordinary and partial differential equations, 3D Fourier analysis and optimization.

Biological applications include protein folding, molecular dynamics, implicit solvent electrostatics, and molecular interactions.

**Requisites:** (MATH 234 or 320) and (COMP SCI 301 or 302)

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**BIOCHEM/B M I/BMOLCHEM/MATH 609 – MATHEMATICAL METHODS FOR SYSTEMS BIOLOGY**

3 credits.

Intended to provide a rigorous foundation for mathematical modeling of biological systems. Mathematical techniques include dynamical systems and differential equations. Applications to biological pathways, including understanding of bistability within chemical reaction systems, are emphasized.

**Requisites:** MATH 340 or 341; MATH 415, or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**BIOCHEM/GENETICS/MICROBIO 612 – PROKARYOTIC MOLECULAR BIOLOGY**

3 credits.

Molecular basis of bacterial physiology and genetics with emphasis on molecular mechanisms; topics include nucleic acid-protein interactions, transcription, translation, replication, recombination, regulation of gene expression.

**Requisites:** Bact 370 or equiv BIOCHEM 501 or equiv, or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BIOCHEM/NUTR SCI 619 – ADVANCED NUTRITION: INTERMEDIARY METABOLISM OF MACRONUTRIENTS**

3 credits.

Discuss metabolic control; gastrointestinal physiology, nutrient absorption; molecular, cellular, organismal aspects of glucose transport, metabolism, regulation; fuel sensing; molecular regulation of fatty acid, lipid metabolism; cellular, organismal aspects of protein metabolism; hormonal control of metabolism; experimental approaches for studying metabolism.

**Requisites:** Grad st; Nutr Sci 510 or BIOCHEM 507 508 or

BMOLCHEM 503 (or con reg) or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BIOCHEM/GENETICS/MD GENET 620 – EUKARYOTIC MOLECULAR BIOLOGY**

3 credits.

This course focuses on the basic molecular mechanisms that regulate DNA, RNA, and protein metabolism in eukaryotic organisms. This course is intended for advanced undergraduates and first year graduate students with a firm knowledge of basic biochemistry.

**Requisites:** BIOCHEM 501 or 508 or graduate standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BIOCHEM/BOTANY 621 – PLANT BIOCHEMISTRY**

3 credits.

Biochemistry of photosynthesis, respiration, cell walls, and other metabolic and biosynthetic processes in plants.

**Requisites:** Biochem BIOCHEM 501 or 507

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BIOCHEM 624 – MECHANISMS OF ENZYME ACTION**

2 credits.

Lecture. The relation of structure and kinetics to mechanisms of enzymatic catalysis; studies of specific enzymes and enzyme systems.

**Requisites:** BIOCHEM 501, or 507 508, or 601; CHEM 561 or 565; or cons inst (not open to Fr)

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**BIOCHEM 625 – MECHANISMS OF ACTION OF VITAMINS AND MINERALS**

2 credits.

Emphasizes the importance of coenzyme and cofactors of enzymes (i.e., vitamins and minerals) in biochemistry. All aspects of the biochemistry of coenzymes will be covered, including their biosynthesis as far as is known, the biochemical reactions they catalyze, their chemical and spectroscopic properties, and the mechanisms by which they facilitate biochemical reactions.

**Requisites:** CHEM 345 and previous or concurrent enrollment in BIOCHEM 501 or 507; or graduate standing

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BIOCHEM/PHMCOL-M/ZOOLOGY 630 – CELLULAR SIGNAL TRANSDUCTION MECHANISMS**

3 credits.

Lecture-discussion. Comprehensive coverage of human hormones, growth factors and other mediators; emphasis on hormone action and biosynthesis, cell biology of hormone-producing cells.

**Requisites:** Intro biochem (BIOCHEM 501 or 507 508) cell biology (Biocore 303 or Zool 570 or Path750) or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BIOCHEM 636 – MACROMOLECULAR CRYSTALLOGRAPHY AND DYNAMICS**

2 credits.

Provide knowledge of techniques used to obtain detailed structural and dynamic information about biological macromolecules and survey results. Techniques include x-ray diffraction, electron microscopy and molecular dynamics simulations. Designed for advanced undergraduates and beginning graduate students in the biological sciences.

**Requisites:** Concurrent or prior biochem; calc, freshman physics or equiv

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**BIOCHEM/NUTR SCI 645 – MOLECULAR CONTROL OF METABOLISM AND METABOLIC DISEASE**

3 credits.

Examination of various physiological states and how they affect metabolic pathways. Discussion of a number of special topics related to the unique roles of various tissues and to metabolic pathways in disease states, including adipocyte biology, beta-cell biology, epigenetics, inflammation, and aging related diseases.

**Requisites:** BIOCHEM 501 or 508 or graduate standing

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BIOCHEM 660 – METHODS IN BIOCHEMISTRY**

2 credits.

Survey of modern techniques in molecular biology and biochemistry.

**Requisites:** 2 sem organic chem, intermed or adv biochem/molec biol, cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**BIOCHEM/CHEM 665 – BIOPHYSICAL CHEMISTRY**

4 credits.

Equilibrium thermodynamics, chemical kinetics and transport properties, with emphasis on solution behavior and application to noncovalent interactions of biological macromolecules in solution. For graduate students interested in the biological applications of physical chemistry. Stdts must meet prereqs for CHEM 565 have some prev background in phys chem

**Requisites:** Grad st or cons inst.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BIOCHEM 681 – SENIOR HONORS THESIS**

2-4 credits.

**Requisites:** Sr st cons inst (for hon Biochem majors only)**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**BIOCHEM 682 – SENIOR HONORS THESIS**

2-4 credits.

Continuation of 681.

**Requisites:** Honors program candidacy BIOCHEM 681.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**BIOCHEM 691 – SENIOR THESIS**

2 credits.

**Requisites:** Sr st cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**BIOCHEM 692 – SENIOR THESIS**

2 credits.

**Requisites:** Sr st and cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**BIOCHEM 699 – SPECIAL PROBLEMS**

1-4 credits.

Provides academic credit for research, library, and/or laboratory work under direct guidance of a faculty member. Students are responsible for arranging the work and credits with the supervising faculty member.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**BIOCHEM/BMOLCHEM 701 – PROFESSIONAL RESPONSIBILITY**

1 credit.

Training for the practical aspects of being a scientist. Will cover ethics, peer review, grant writing, science communication, career alternatives, paper writing, experimental design, research documentation, science funding, academic-private interface, scientific fraud, and more.

**Requisites:** Admission to the IPIB grad program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**BIOCHEM/GENETICS 703 – TOPICS IN EUKARYOTIC REGULATION**

2 credits.

Design and interpretation of experiments addressing molecular mechanisms of eukaryotic regulation. For first year graduate students with firm knowledge of basic biochemistry, molecular biology and genetics.

**Requisites:** Must have taken Biochem/Genetics/Microbiology 612 and consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2013**BIOCHEM/CHEM 704 – CHEMICAL BIOLOGY**

2 credits.

Chemistry and biology of proteins, nucleic acids and carbohydrates; application of organic chemistry to problems in cell biology, biotechnology, and biomedicine.

**Requisites:** BIOCHEM 501 or equiv, 1 yr org chem cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**BIOCHEM/BMOLCHEM 710 – EXPLORING BIOCHEMICAL FUNCTION OF MACROMOLECULES**

2 credits.

Required for first-year IPIB graduate students, this course focuses on topics and approaches applicable to an in-depth understanding of fundamental biochemical research.

**Requisites:** Graduate standing consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**BIOCHEM 711 – SEQUENCE ANALYSIS**

2 credits.

Topics will include overviews of: RNA, DNA and protein structure; mechanisms of genetic change; sequence generation methods; comparison and alignment algorithms; motif recognition; 2D predictions; phylogeny calculations; database searching; discriminating coding criteria; phenotypic selection; phylogenetic reconstruction.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2010



**BIOCHEM/MICROBIO 726 – REGULATION OF GENE EXPRESSION IN PROKARYOTES**

3 credits.

An intensive examination of a limited number of systems to illustrate the range of molecular mechanism utilized to control gene expression in bacteria.

**Requisites:** Bact/Genetics/BIOCHEM/GENETICS/MICROBIO 612 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**BIOCHEM 729 – ADVANCED TOPICS**

1-3 credits.

Specialized subjects of current interest.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**BIOCHEM 799 – PRACTICUM IN BIOCHEMISTRY TEACHING**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2014

**BIOCHEM 800 – PRACTICAL NUCLEAR MAGNETIC RESONANCE THEORY**

2 credits.

Multiple pulse NMR, off-resonance effects, composite and shaped pulses, product operators, coherence transfer, one- and two-dimensional NMR, phase cycling, multiple quantum coherence, and cross relaxation.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BIOCHEM 801 – BIOCHEMICAL APPLICATIONS OF NUCLEAR MAGNETIC RESONANCE**

2 credits.

Survey of current solution-state nuclear magnetic resonance techniques used in biochemical research; the emphasis will be on how data are acquired and on practical applications.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**BIOCHEM/BOTANY/GENETICS 840 – REGULATORY MECHANISMS IN PLANT DEVELOPMENT**

3 credits.

Molecular mechanisms whereby endogenous and environmental regulatory factors control development; emphasis on stimulus perception and primary events in the signal chain leading to modulated gene expression and cellular development; lecture.

**Requisites:** BIOCHEM 501 or 601 BOTANY 500 or Biocore 301 323

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**BIOCHEM/CHEM 872 – SELECTED TOPICS IN MACROMOLECULAR AND BIOPHYSICAL CHEMISTRY**

1-3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**BIOCHEM 875 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2010

**BIOCHEM/NUTR SCI 901 – SEMINAR-NUTRITION AND METABOLISM (ADVANCED)**

1 credit.

Presentation of original research results; discussion of recent articles in animal metabolism and nutrition.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**BIOCHEM 906 – TOPICS IN MODELING FOR BIOCHEMICAL SYSTEMS**

1 credit.

Participants discuss topics relevant to predictive modeling of bioenergy systems. Students present talks and lead brainstorming sessions intended to sharpen their skills at cross-disciplinary communication. Modeling microbes and plants at the genetic, molecular and systems level is emphasized.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016



**BIOCHEM 909 – SEMINAR-ENZYMOLGY (ADVANCED)**

1 credit.

Research reports, special topics, and reports from recent literature in enzymology and enzyme mechanisms.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**BIOCHEM 910 – SEMINAR-MOLECULAR VIROLOGY (ADVANCED)**

1 credit.

Research reports, special topics, and reports from recent literature in molecular virology.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**BIOCHEM 911 – SEMINAR-MOLECULAR MECHANISMS OF HORMONE ACTION (ADVANCED)**

1 credit.

To train students in evaluating published papers in regard to scientific merit and content; provide training in delivering an evaluation of this material to a large group; and to help students and faculty stay abreast of current developments in the area of steroid hormone action.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2009**BIOCHEM 912 – SEMINAR-MOLECULAR MECHANISMS OF DEVELOPMENT**

1 credit.

Classical and current papers concerning molecular and genetic mechanisms of eukaryotic development will be presented and discussed.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**BIOCHEM/BMOLCHEM 913 – SEMINAR-RIBOGROUP (ADVANCED)**

1 credit.

Student-led discussions of RNA-related problems.

**Requisites:** Biochem 603 or equiv, GENETICS 466 or equiv; cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**BIOCHEM/BMOLCHEM/M M & I/MICROBIO 914 – SEMINAR-MOLECULAR BIOSCIENCES (ADVANCED)**

1 credit.

During the fall semester, molecular biosciences trainees who have not achieved dissertator status will present seminars based primarily on literature related to their projects. During the spring semester, molecular biosciences trainees with dissertator status will present seminars based upon their own research.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**BIOCHEM/B M E/B M I/CBE/COMP SCI/GENETICS 915 – COMPUTATION AND INFORMATICS IN BIOLOGY AND MEDICINE**

1 credit.

Participants and outside speakers will discuss current research in computation and informatics in biology and medicine. This seminar is required of all CIBM program trainees.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**BIOCHEM 916 – CELLULAR MECHANISMS OF PROTEIN BIOGENESIS AND TRAFFICKING**

1 credit.

Recent literature relating to cellular aspects of the regulation of protein biogenesis including protein synthesis, folding, modification, degradation and trafficking, as well as function of molecular chaperones, will be presented and discussed.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**BIOCHEM/MICROBIO 917 – REGULATION OF GENE EXPRESSION (ADVANCED SEMINAR)**

1 credit.

Participants will discuss recent literature in topics related to prokaryotic and eukaryotic gene regulation. These topics include but are not limited to regulation of transcription, translation, and genome organization. Each week, one student participant will lead a critical discussion on a recent publication in the field of gene regulation. The discussion leader will explain the background materials, methodology, experimental results, and broader implications of the publication. All participants will be expected to take an active role in the discussion.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**BIOCHEM/CHEM 918 – SINGLE MOLECULE APPROACHES TO BIOLOGY**  
1 credit.

A combination of recent literature and original research presentations relating to the use of single molecule techniques in biochemistry including fluorescence microscopy, tethered particle motion, patch-clamping, cryo-electron microscopy, optical trapping, magnetic tweezers, and super resolution microscopy.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**BIOCHEM/CBE/MICROBIO 932 – BIOTECHNOLOGY TRAINING PROGRAM SEMINAR**  
1 credit.

Biotechnology Training Program trainees will present their research for critical review by audience. Required of Biotechnology Training Program trainees

**Requisites:** Grad st.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**BIOCHEM/CHEM 945 – SEMINAR-CHEMICAL BIOLOGY (ADVANCED)**  
1 credit.

Recent published research in chemical biology and related areas. Intended for advanced graduate students, and required of all NIH Chemistry-Biology Interface trainees.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**BIOCHEM 990 – RESEARCH**  
1-12 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**BIOCHEM 999 – SPECIAL PROBLEMS**  
1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2005

**BIOLOGICAL SYSTEMS  
ENGINEERING (BSE)****BSE 1 – COOPERATIVE EDUCATION PROGRAM**  
1 credit.

Work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career.

**Requisites:** So st

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**BSE 201 – LAND SURVEYING FUNDAMENTALS**  
1 credit.

Basic surveying terminology, equipment, note keeping, computations and data presentation. Emphasis on differential leveling, radial topographic surveying and radial stakeout using a total station survey instrument.

**Requisites:** So st, cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BSE 243 – OPERATING AND MANAGEMENT PRINCIPLES OF OFF-ROAD VEHICLES**  
3 credits.

Principles of operation of internal combustion engines, fuel metering, cooling, lubrication, clutches, mechanical and hydrostatic transmissions, final drives, hydraulics systems and traction systems. Selection and management of off-road vehicles for agriculture, construction, lawncare and turfgrass industries. Not recommended for stdts in engineering

**Requisites:** MATH 112 or 114.

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**BSE 249 – ENGINEERING PRINCIPLES FOR BIOLOGICAL SYSTEMS**  
3 credits.

Applications of basic engineering principles such as mass and energy balances, psychrometric heat and mass transfer and fluid flow to problems encountered in agricultural and biological systems including grain conditioning, fruit and vegetable storage, food processing, animal housing, and environmental control.

**Requisites:** MATH 221

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BSE 270 – INTRODUCTION TO COMPUTER AIDED DESIGN**  
3 credits.

Introduction to computer aided design (CAD) concepts and techniques, including two- and three-dimensional drawing presentation, methods of graphic communication and design synthesis. Specific topics include parametric solid modeling, part design, survey data and surface construction, orthographic drawings, dimensioning rules and drawing standards, assemblies, and animation.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BSE 289 – HONORS INDEPENDENT STUDY**

1-2 credits.

Inter-Ag 288

**Requisites:** Enrolled in the CALS Honors Prgm Jr or So st.

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**BSE 299 – INDEPENDENT STUDY**

1-3 credits.

Open to Freshmen

**Requisites:** Freshmen, Sophomore or Junior standing written consent of instructor.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**BSE 308 – CAREER MANAGEMENT FOR ENGINEERS**

1 credit.

Information to aid engineers in career decision making including: personal time and fiscal management, job selection, career development, leadership, legal aspects of engineering, professional ethics.

**Requisites:** None

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**BSE 349 – QUANTITATIVE TECHNIQUES FOR BIOLOGICAL SYSTEMS**

3 credits.

Principles of how energy and materials are utilized in Cells, organisms and ecosystems. Mass transfer, heat and energy balances applied to cell metabolism, plants, and ecosystems. Quantification of biological processes to allow manipulation for human benefit.

**Requisites:** MATH 222, CHEM 104 or CHEM 109, introductory biology crse, 1 yr of high school physics, or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BSE 351 – STRUCTURAL DESIGN FOR AGRICULTURAL FACILITIES**

3 credits.

Introduction to agricultural building codes and loads; structural analysis; wood, concrete and soil properties; wood and reinforced concrete design; construction specifications.

**Requisites:** EMA 201

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**BSE/DS/LAND ARC 356 – SUSTAINABLE RESIDENTIAL CONSTRUCTION**

3 credits.

Properties and use of building materials, framing systems, HVAC systems, code requirements, conservation of natural resources in building construction and operation.

**Requisites:** MATH 112, 114, or 171

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**BSE 364 – ENGINEERING PROPERTIES OF FOOD AND BIOLOGICAL MATERIALS**

3 credits.

Study of various physical, mechanical, thermal and other properties of food and biological materials. Importance of such property values on the design and operation of various food and bioprocess engineering systems.

**Requisites:** BSE 249 ME 361 or ChE 310, or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BSE 365 – MEASUREMENTS AND INSTRUMENTATION FOR BIOLOGICAL SYSTEMS**

3 credits.

Principles of instrumentation and measurement systems, analysis of experimental data, electronic components, instrumentation for measuring various parameters of biological systems (temperature, force, flow). Must have taken PHYSICS 202 and one of the following Statistics courses: 224, 301, or 324.

**Requisites:** Must be a Biological Systems Engineering major.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BSE/ENVIR ST 367 – RENEWABLE ENERGY SYSTEMS**

3 credits.

Students will learn about the state-of-the-art in renewable energy applications including biomass for heat, electric power and liquid fuels as well as geo-energy sources such as wind, solar, and hydro power. Students will do engineering calculations of power and energy availability of renewable energy sources and learn about requirements for integrating renewable energy sources into production, distribution and end-use systems.

**Requisites:** College algebra, college-level physical science course

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BSE/CIV ENGR/SOIL SCI 372 – ON-SITE WASTE WATER TREATMENT AND DISPERSAL**

2 credits.

On-site treatment and dispersal of waste water from homes, commercial sources and small communities. Sources, pretreatment units, nutrient removal units, constructed wetlands, surface and soil dispersal systems, recycle and reuse systems, regulations, alternative collection systems.

**Requisites:** CHEM 103**Repeatable for Credit:** No**Last Taught:** Fall 2017**BSE 375 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Cons inst**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**BSE 399 – COORDINATIVE INTERNSHIP/COOPERATIVE EDUCATION**

1-8 credits.

**Requisites:** So or Jr or Sr st cons suprvg inst intrshp prog coordinator advisor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**BSE 400 – STUDY ABROAD IN BIOLOGICAL SYSTEMS ENGINEERING**

1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. W.-Madison Study Abroad Program

**Requisites:** Current registration in a U.**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**BSE/FOOD SCI/M E 441 – RHEOLOGY OF FOODS AND BIOMATERIALS**

3 credits.

Fundamentals of rheology and rheological evaluations of food and biomaterials; structure-function relationships.

**Requisites:** PHYSICS 201 or CBE/B M E 320 or ME 363 or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2016**BSE 460 – BIOREFINING: ENERGY AND PRODUCTS FROM RENEWABLE RESOURCES**

3 credits.

Concepts, processes, status quo and future direction of biorefining for production of energy (fuels), chemicals and materials from biomass, with emphases on chemical, biological and engineering aspects of the biorefining.

**Requisites:** CHEM 109 or equiv; organic chem or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**BSE 461 – FOOD AND BIOPROCESSING OPERATIONS**

3 credits.

Principles of mechanics, fluid dynamics, and heat and mass transfer as applied to food and bioprocessing operations. Specific focus on unit operations and equipment associated with the products key to Wisconsin industries including pulp and paper, dairy products, ethanol, forage, and grain.

**Requisites:** (BSE 249 or CBE 250) and (CIV ENGR 310 or CBE/B M E 320 or ME 363) and declared in Bio Systems, Biomedical, Chemical, Civil, Computer, Electrical, Geological, Industrial, Mechanical, Nuclear, Engineering Physics, Engineering Mechanics, MSE, or grad standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**BSE 464 – HEAT AND MASS TRANSFER IN BIOLOGICAL SYSTEMS**

3 credits.

Introduction to heat and mass transfer fundamentals, including transport mechanisms of conduction, convection, radiation, diffusion and evaporation. Development of governing equations and boundary conditions with application to living systems, controlled environments, water systems, and food processing. Introduction to, and application of, finite-difference and finitevolume methods, including computational fluid dynamics (CFD).

**Requisites:** M E 361, CBE 310 or an equivalent Thermodynamics course; M E 363, CBE/B M E 320, CEE 310 or an equivalent Fluid Mechanics course**Repeatable for Credit:** No**Last Taught:** Spring 2017**BSE 472 – SEDIMENT AND BIO-NUTRIENT ENGINEERING AND MANAGEMENT**

3 credits.

Hydrologic, biologic and engineering applications in the design and management of sediment and bio-nutrient control systems.

**Requisites:** Jr st in Engr or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2017**BSE 473 – IRRIGATION AND DRAINAGE SYSTEMS DESIGN**

2 credits.

Engineering and management applications of soil-plant-water relationships applied to drainage and irrigation design.

**Requisites:** Jr st in Engr or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**BSE/M E 475 – ENGINEERING PRINCIPLES OF AGRICULTURAL MACHINERY**

3 credits.

Engineering design principles of machines for the production, processing and handling of crops for food, fuel, bio-mass and fiber. Environmental and biological factors that influence machine design and operation.

Economic and capacity analysis of machines and systems.

**Requisites:** Declared in Biological Systems Engineering or Mechanical Engineering and E M A 202 or M E 240 or graduate standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BSE/M E 476 – ENGINEERING PRINCIPLES OF OFF-ROAD VEHICLES**

3 credits.

Engineering design principles of heavy-duty vehicles intended for off-road use: fuels, engine cycles, engine principles and construction, clutches, mechanical and hydrostatic transmissions, final drives, traction systems, traction modeling, dynamic behavior, suspension systems and braking.

**Requisites:** Declared in Biological Systems Engineering or Mechanical Engineering and M E 361, E M A 202 or M E 240; or graduate standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BSE/CIV ENGR 491 – LEGAL ASPECTS OF ENGINEERING**

3 credits.

Legal principles and institutions germane to engineering practice; formation and performance of engineer-client and owner-contractor relationships; preparation of technical specifications; surety bonds and insurance; construction liens; contract administration; construction contract remedies; intellectual property of engineers; engineers' obligations to society and their fellow engineers.

**Requisites:** Sr st or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BSE 508 – BIOLOGICAL SYSTEMS ENGINEERING DESIGN PRACTICUM I**

2 credits.

Overview of the engineering design process including problem identification, information retrieval, specification writing, development and analysis of alternative solutions, selection methodology, product safety, standardization, scheduling and cost estimating. Students develop design project proposals for real-world design problems.

**Requisites:** Junior standing

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BSE 509 – BIOLOGICAL SYSTEMS ENGINEERING DESIGN PRACTICUM II**

3 credits.

Individual or team work on a biological systems engineering design project: problem identification, information retrieval, specification writing, development and analysis of alternative solutions, selection methodology.

**Requisites:** Declared in Biological Systems Engineering program with Senior standing and BSE 508

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BSE/B M E/CBE 517 – BIOLOGY IN ENGINEERING SEMINAR**

1 credit.

Current topics at the interface of biology and engineering with special emphasis on the ways in which engineers have contributed to knowledge and advances in biology.

**Requisites:** Jr st in engr one college-level biol crse

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**BSE/FOOD SCI 542 – FOOD ENGINEERING OPERATIONS**

4 credits.

Lectures and experiments in food engineering operations selected from topics such as: thermodynamics, transport processes, biological kinetics and bioreactor design, thermal process calculations, separation processes, process instrumentation and control, process design and economics, and the use of computers.

**Requisites:** Food Sci 440, Sr st, or cons inst

**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Biological Sci. Counts toward the Natural Sci req Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**BSE 571 – SMALL WATERSHED ENGINEERING**

3 credits.

Application of engineering principles to small, ungauged watershed analysis. Application of hydrologic and sedimentologic principles to upland watersheds for run-off and sediment control.

**Requisites:** Sr in Engr or Grad st or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**BSE/FOOD SCI 642 – FOOD AND PHARMACEUTICAL SEPARATIONS**

2-3 credits.

Basic principles of production-scale separation processes in the food and pharmaceutical industries including gravity sedimentation and centrifugation, extraction, adsorption, chromatography, precipitation, conventional and membrane filtration, crystallization, and drying. Third credit adds group term project, integrating principles with experiments, defined by students' interests.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BSE 671 – TOPICS IN NATURAL RESOURCES ENGINEERING**

1-3 credits.

Advanced topics in natural resource engineering.

**Requisites:** St or Grad st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2013

**BSE 681 – SENIOR HONORS THESIS**

2-4 credits.

**Requisites:** Hon candidacy

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**BSE 682 – SENIOR HONORS THESIS**

2-4 credits.

Continuation of 681.

**Requisites:** Honors program candidacy BSE 681

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**BSE 691 – SENIOR THESIS**

2 credits.

**Requisites:** Sr st cons inst

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**BSE 692 – SENIOR THESIS**

2 credits.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**BSE 699 – SPECIAL PROBLEMS**

1-4 credits.

**Requisites:** Sr st cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**BSE 799 – PRACTICUM IN AGRICULTURAL ENGINEERING TEACHING**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BSE 875 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**BSE 900 – SEMINAR**

1 credit.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**BSE 901 – GRADUATE RESEARCH SEMINAR**

1 credit.

Presentation and evaluation of graduate student thesis and non-thesis research.

**Requisites:** BSE 900

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BSE 990 – RESEARCH**

1-12 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**BSE 999 – SPECIAL PROBLEMS**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017



## BIOLOGY (BIOLOGY)

### BIOLOGY/ZOOLOGY 101 – ANIMAL BIOLOGY

3 credits.

General biological principles. Topics include: evolution, ecology, animal behavior, cell structure and function, genetics and molecular genetics and the physiology of a variety of organ systems emphasizing function in humans.

**Requisites:** Not recommended for students with credit already in Zoology/Biology/BOTANY/BIOLOGY/ZOOLOGY 151 or 152

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### BIOLOGY/ZOOLOGY 102 – ANIMAL BIOLOGY LABORATORY

2 credits.

General concepts of animal biology at an introductory level. The general body plans and strategies used to accomplish the basic tasks of staying alive of 9 major animal groups are studied using preserved and live animals. The diversity within each group of animals is studied by integrating the body plans with the lifestyle and ecology of the animals. The evolutionary relationships between the animals is a major part of the course. Dissections of earthworm, freshwater mussel, squid, sea star, and rat also aid the study of these general principles.

**Requisites:** Not recommended for students with credit already in Zoology/Biology/BOTANY/BIOLOGY/ZOOLOGY 151/152

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### BIOLOGY/BOTANY 130 – GENERAL BOTANY

5 credits.

Introduction to the basic principles and concepts of the biology of plants. an integrative approach stressing evolutionary sequences and the relationship between structure and function at succeeding levels of organization: molecule, cell, organism, population, community. Correlated lectures, laboratories, and discussions. HS or coll chem crse recommended

**Requisites:** Open to Fr; not open to stdts who have taken BOTANY 100 or Botany/ZOOLOGY/BIOLOGY/BOTANY 151-152.

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### BIOLOGY/BOTANY/ZOOLOGY 151 – INTRODUCTORY BIOLOGY

5 credits.

First semester of a two semester course designed for majors in biological sciences. Topics include: cell structure and function, cellular metabolism (enzymes, respiration, photosynthesis), information flow (DNA, RNA, protein), principles of genetics and selected topics in Animal Physiology. HS chem or concurrent registration in college chemistry strongly advised.

**Requisites:** Not recommended for students with credit already in Zoo/Bio 101, 102 or Botany/Bio 130

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### BIOLOGY/BOTANY/ZOOLOGY 152 – INTRODUCTORY BIOLOGY

5 credits.

Second semester of a two semester course designed for majors in biological sciences. Continuation of 151. Topics include: selected topics in plant physiology, a survey of the five major kingdoms of organisms, speciation and evolutionary theory, and ecology at multiple levels of the biological hierarchy. Not recommended for students with credit already in Zoology/BIOLOGY/ZOOLOGY 101,102 or Botany/BIOLOGY/BOTANY 130

**Requisites:** Biology/Botany/ZOOLOGY/BIOLOGY/BOTANY 151.

**Course Designation:** Gen Ed - Communication Part B

Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### BIOLOGY 299 – DIRECTED STUDIES

1-4 credits.

Graded on a letter basis.

**Requisites:** Consent of instructor

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

### BIOLOGY 375 – SPECIAL TOPICS

1-5 credits.

**Requisites:** Prerequisite varies with topic

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

### BIOLOGY 399 – INTERNSHIP/FIELD EXPERIENCE

1-8 credits.

Graded on a letter basis.

**Requisites:** So st cons of supervising inst, advisor internship prog coordinator

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**BIOLOGY/GENETICS 522 – EVOLUTION SEMINAR SERIES-  
UNDERGRADUATE**

1 credit.

The Evolution Seminar Series exposes students to diverse topics in contemporary evolutionary biology. Most weeks, one or more guest lecturers present their own primary research on a specialized topic in evolutionary biology. Diverse seminars include perspectives from genetics, ecology, geoscience, zoology, botany, microbiology, systematics, molecular biology, and integrative research. Some weeks feature special topics and discussions on pedagogical, legal, outreach, or other issues in evolutionary biology. Students learn to think critically about methodology, experimental design and interpretation, and how conclusions are reached in evolutionary biology by reading primary and secondary literature, attending seminars, discussing topics with speakers and other students, moderating discussions, and preparing a written report.

**Requisites:** Prior or concurrent enrollment in ZOOLOGY/ANTHRO/  
BOTANY 410

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural  
Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BIOLOGY/MICROBIO 525 – ADVANCED BIOLOGICAL LABORATORY  
PRACTICES: A RESEARCH EXPERIENCE**

2 credits.

Theory and practice of techniques typically used in microbiological and related biological research; biological experimental data interpretation and analysis; practice writing a research paper, reading primary literature, presenting their work to peers, and self-directing an independent research project (including keeping accurate lab notebooks); critical thinking in controversial scientific research ethics.

**Requisites:** MICROBIO 303 and 304

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural  
Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**BIOLOGY 675 – SPECIAL TOPICS**

1-5 credits.

**Requisites:** Prerequisite varies with topic

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**BIOLOGY 681 – SENIOR HONORS THESIS**

2-3 credits.

Graded on a letter basis.

**Requisites:** 2 sem of coll biol cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BIOLOGY 682 – SENIOR HONORS THESIS**

2-3 credits.

Graded on a letter basis.

**Requisites:** 2 sem of coll biol cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BIOLOGY 691 – SENIOR THESIS**

2-3 credits.

Graded on a letter basis.

**Requisites:** 2 sem of coll biol cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**BIOLOGY 692 – SENIOR THESIS**

2-3 credits.

Graded on a letter basis.

**Requisites:** 2 sem of coll biol cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BIOLOGY 699 – DIRECTED STUDIES**

1-4 credits.

Graded on a letter basis.

**Requisites:** 2 sem of coll biol cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## BIOLOGY CORE CURRICULUM (BIOCORE)

**BIOCORE 381 – EVOLUTION, ECOLOGY, AND GENETICS**

3 credits.

Basic principles of ecology and interrelations between individuals, populations, communities, ecosystems and their environment; transmission genetics and introduction to population genetics; origin of life, evolutionary mechanisms, ancestral relationships among species, and the diversity of life..

**Requisites:** MATH 221, CHEM 104 or 109, previous or concurrent registration in CHEM 341 or 343; or consent of instructor

**Course Designation:** Gen Ed - Communication Part B

Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BIOCORE 382 – EVOLUTION, ECOLOGY, AND GENETICS LABORATORY**

2 credits.

Writing-intensive course with opportunities for students to make observations and generate and test their own questions. Includes field trips to the Biocore Prairie and local stream, and research projects that focus on genetics and evolution.

**Requisites:** Completion of or concurrent registration in BIOCORE 381 (or Biocore 301 previous to Fall 2014)

**Course Designation:** Gen Ed - Communication Part B  
Breadth - Biological Sci. Counts toward the Natural Sci req  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BIOCORE 383 – CELLULAR BIOLOGY**

3 credits.

Cellular and molecular basis of life. The main themes are the structure and function of cells and organelles, the flow of energy in cells, and the storage, expression, and regulation of genetic information.

**Requisites:** BIOCORE 381 (or Biocore 301 previous to Fall 2014), CHEM 341 or 343; or consent of instructor

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BIOCORE 384 – CELLULAR BIOLOGY LABORATORY**

2 credits.

Writing-intensive course with opportunities for students to generate and test their own questions utilizing concepts and procedures of cell biology. Includes research projects in subcellular fractionation, protein structure and enzyme catalysis, molecular genetics of *C.elegans* worms, and signal transduction in yeast. Sophomore or Junior status or consent of instructor

**Requisites:** Completion of or concurrent registration in BIOCORE 383 (or Biocore 303 previous to Spring 2014) or BIOCHEM 501 GENETICS 466.

**Course Designation:** Gen Ed - Communication Part B  
Breadth - Biological Sci. Counts toward the Natural Sci req  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BIOCORE 401 – PEER MENTORING**

1 credit.

Weekly seminar for development of mentoring, group facilitation, leadership, and interpersonal skills used in peer learning and leading mentored study groups. This course focuses on the pedagogy, skills, and effective techniques used to facilitate learning in small groups. Activities and assignments include discussion of readings, leading practice facilitation/ problem solving sessions and receiving feedback, development of practice problems and questions from lower order to higher order cognitive levels using Blooms Taxonomy, doing reciprocal mentor observations, and reflective journal assignments.

**Requisites:** BIOCORE 381, 383, and (BIOCORE 382 or 384)

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BIOCORE 485 – ORGANISMAL BIOLOGY**

3 credits.

Physiology course that considers how plants and animals interact with their environments to survive, obtain nutrients, exchange gases, and reproduce, also how the complex systems of neural and endocrine regulation in animals and hormonal and environmental regulation in plants allow cells and organs to communicate.

**Requisites:** BIOCORE 381 383 (or Biocore 301 303 previous to Spring 2014); or consent of instructor

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BIOCORE 486 – ORGANISMAL BIOLOGY LABORATORY**

2 credits.

Students experience the process of science by collaborating on two multi-week independent experiments to investigate their own questions about animal and plant physiology. Emphasis is on critical thinking required in designing and conducting experiments, analyzing and interpreting data, and communicating findings orally and in writing.

**Requisites:** BIOCORE 485 or concurrent enrollment

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BIOCORE 587 – BIOLOGICAL INTERACTIONS**

3 credits.

This capstone course helps students build on and integrate the knowledge and skills they have gained in the previous three semesters of Biocore lab and lecture coursework through readings and analysis of primary scientific literature. The course is organized such that students work in small groups to analyze current and emerging topics through the lens of scientific research. Topics include signaling pathways, systems biology, genetic disease, and cancer.

**Requisites:** BIOCORE 381, 383, and 485 (or Biocore 301, 303, and 323 previous to Spring 2014); or consent of instructor

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BIOCORE 699 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Biocore 301 consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**BIOMEDICAL ENGINEERING (B M E)****B M E 1 – COOPERATIVE EDUCATION PROGRAM**

1 credit.

Work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career in industry.

**Requisites:** Sophomore standing

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**B M E 200 – BIOMEDICAL ENGINEERING DESIGN**

1 credit.

Students will work in a team on a client-centered biomedical engineering design project to learn concept generation, product analysis, specifications, evaluation, clinical trials, regulation, liability, and ethics.

**Requisites:** So st in biomedical engineering

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**B M E 201 – BIOMEDICAL ENGINEERING FUNDAMENTALS AND DESIGN**

2 credits.

Fundamentals of biomedical engineering and principles of design. Hands-on skills including computer-aided design, machining, and fabrication of a physical medical device prototype.

**Requisites:** Sophomore standing in biomedical engineering

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**B M E 300 – BIOMEDICAL ENGINEERING DESIGN**

1 credit.

Students will work in a team on a client-centered biomedical engineering design project to learn concept generation, product analysis, specifications, evaluation, clinical trials, regulation, liability, and ethics.

**Requisites:** BME 201, 315 or con reg

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**B M E 301 – BIOMEDICAL ENGINEERING DESIGN**

1 credit.

Students will work in a team on a client-centered biomedical engineering design project to learn concept generation, product analysis, specifications, evaluation, clinical trials, regulation, liability, and ethics.

**Requisites:** Jr st in biomed engr, BME 430 or con reg

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**B M E 310 – BIOINSTRUMENTATION**

3 credits.

A sophomore level first course in bioinstrumentation covering clinical and research measurements. Laboratory experiments complement the lectures. Open only to students in the BME program or consent of instructor

**Requisites:** CHEM 109 or (CHEM 103 and CHEM 104); PHYSICS 202 or PHYSICS 208; MATH 234 or concurrent registration.

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**B M E 315 – BIOMECHANICS**

3 credits.

This course will provide an introduction to the mechanical behavior of biological tissues and systems. Specific topics include: structure and function of biological tissues, mechanical properties of biological tissues, and analysis of specific tissues (i.e. bone, muscle, and soft connective tissues). Open only to students in the BME program or consent of instructor

**Requisites:** MATH 234; PHYSICS 202 or PHYSICS 208; EMA 303 or ME 306.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**B M E/CBE 320 – INTRODUCTORY TRANSPORT PHENOMENA**

4 credits.

Mass, momentum, and energy transport; calculation of transport coefficients; solution to problems in viscous flow, heat conduction, and diffusion; dimensional analysis; mass, momentum, and heat transfer coefficients; over-all balances; elementary applications.

**Requisites:** PHYSICS 201, MATH 319 or 320, CBE 250 with grade of C or better; or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**B M E/CBE 330 – ENGINEERING PRINCIPLES OF MOLECULES, CELLS, AND TISSUES**

3 credits.

Introduction to the fundamental principles of kinetics and transport that are relevant for the analysis of biological systems. Topics covered include concepts of reaction rate, stoichiometry, equilibrium, momentum/mass transport, and the interaction between transport and kinetics in biological systems.

**Requisites:** (E M A 201 or PHYSICS 201 or 207) and (MATH 319 or MATH 320) and (CHEM 104 or 109)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**B M E 389 – HONORS IN RESEARCH**

1-3 credits.

Undergraduate honors research projects supervised by faculty members. Not available for graduate credit.

**Requisites:** Admission to BME Undergraduate Honors in Research Program

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**B M E 399 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** So st in biomedical engineering cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**B M E 400 – CAPSTONE DESIGN COURSE IN BIOMEDICAL ENGINEERING**

3 credits.

This capstone course applies classroom study to solve a directed client-based biomedical engineering design project.

**Requisites:** BME 301, 310, 315, 430, Sr st in biomed engr or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**B M E 402 – BIOMEDICAL ENGINEERING DESIGN**

1 credit.

Students work in a team to evaluate, refine, document and orally present a client-centered biomedical engineering design completed in capstone design course.

**Requisites:** BME 400, Sr st in biomed engr or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**B M E/M E 415 – BIOMECHANICS OF HUMAN MOVEMENT**

3 credits.

An overview of experimental and modeling techniques used to study human movement. Specific topics will include locomotion, motion capture systems, force plates, muscle mechanics, musculoskeletal modeling, three dimensional kinematics, inverse dynamics, forward dynamic simulation and imaging based biomechanics. Homework and laboratory activities will be conducted that emphasize applications of movement biomechanics in orthopedics and rehabilitation. The course will culminate in a class project related to each student's research interests.

**Requisites:** Senior or graduate standing, ME 240, ME 340, BME 315

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**B M E/PHM SCI 430 – BIOLOGICAL INTERACTIONS WITH MATERIALS**

3 credits.

Addresses the range of materials currently being utilized for various biomedical applications, the biological systems governing biomaterial applications, analytical techniques pertinent to biomaterial evaluation, and selected major medical applications in which biomaterials play an important role.

**Requisites:** (BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102, BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151, ZOOLOGY 153, or BIOCORE 383) and (CHEMISTRY 341 or 343)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**B M E/E C E 461 – MATHEMATICAL AND COMPUTER MODELING OF PHYSIOLOGICAL SYSTEMS**

3 credits.

Mathematical and computer modeling of physiological systems; principal emphasis on cardiovascular system and individual nerve cells; other topics include respiratory system and skeletal-muscle system; extensive use of "hands-on" computer modeling using ACSL.

**Requisites:** ECE 330 or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**B M E/E C E 462 – MEDICAL INSTRUMENTATION**

3 credits.

Design and application of electrodes, biopotential amplifiers, biosensors, therapeutic devices. Medical imaging. Electrical safety. Measurement of ventilation, blood pressure and flow. Lecture and lab.

**Requisites:** ECE 342 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**B M E/E C E 463 – COMPUTERS IN MEDICINE**

3 credits.

Study of microprocessor-based medical instrumentation. Emphasis on real-time analysis of electrocardiograms. Labs and programming project involve design of biomedical digital signal processing algorithms.

**Requisites:** ECE 330, Comp Sci 302**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**B M E 489 – HONORS IN RESEARCH**

1-3 credits.

Undergraduate honors research projects supervised by faculty members. Not available for graduate credit.

**Requisites:** Admission to BME Undergraduate Honors in Research Program**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**B M E/H ONCOL/MED PHYS/PHYSICS 501 – RADIOLOGICAL PHYSICS AND DOSIMETRY**

3 credits.

Interactions and energy deposition by ionizing radiation in matter; concepts, quantities and units in radiological physics; principles and methods of radiation dosimetry.

**Requisites:** Calculus and modern physics**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**B M E 505 – BIOFLUIDICS**

3 credits.

Introduction to blood rheology, blood flow dynamics in arteries, capillaries and veins, airflow in the lungs, and other physiological flow phenomena. Healthy and diseased states will be considered. Special topics may include ocular flow dynamics and electro-chemical-fluidics in cartilage.

**Requisites:** EMA 201; EMA 202 or ME 240; PHYSIOL 335; or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**B M E/CBE 510 – INTRODUCTION TO TISSUE ENGINEERING**

3 credits.

Overview of tissue engineering, including discussion of cell sources, cell-material interactions, tailoring biomaterials, methods of culture and characterization of engineering tissues, ethical issues, concluding with case studies of specific types of tissue engineering. Optional laboratory exercises offered throughout semester.

**Requisites:** BME 430 or equiv, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**B M E 511 – TISSUE ENGINEERING LABORATORY**

1 credit.

Tissue engineering refers to the generation of biological substitutes to restore, maintain, or improve tissue function. Laboratory techniques are multi-disciplinary, from basic biological sciences, engineering, and biotechnology. Engineering approaches and analysis will be applied to these techniques.

**Requisites:** BME 510 con reg or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**B M E 515 – THERAPEUTIC MEDICAL DEVICES**

1 credit.

Design of medical devices to treat pathology. Open to majors in biomedical engineering. One lecture each week. Con reg in BME430

**Requisites:** BME 310, BME 315, PHYSIOL 335.**Repeatable for Credit:** No**Last Taught:** Spring 2017**B M E/BSE/CBE 517 – BIOLOGY IN ENGINEERING SEMINAR**

1 credit.

Current topics at the interface of biology and engineering with special emphasis on the ways in which engineers have contributed to knowledge and advances in biology.

**Requisites:** Jr st in engr one college-level biol crse**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**B M E/CBE 520 – STEM CELL BIOENGINEERING**

3 credits.

Covers engineering approaches that are used to understand and manipulate stem cells. Concepts covered include: introduction to stem cell biology, quantitative modeling of stem cell signaling, methods to engineer the stem cell microenvironment, and the role of stem cells in tissue development and regeneration.

**Requisites:** MATH 319 or 320, ZOOLOGY 470 or 570, CHEM 343, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**B M E/MED PHYS 530 – MEDICAL IMAGING SYSTEMS**

3 credits.

2D Fourier image representation, sampling, and image filtering with applications in medical imaging. Principles of operation, impulse responses, signal-to-noise, resolution and design tradeoffs in projection radiography, tomography, nuclear medicine, ultrasound, and magnetic resonance imaging. Knowledge of linear signals systems, convolution, basic probability, ID Fourier Transforms

**Requisites:** ECE 330 or Med Phys 473 or equiv or cons inst.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017



**B M E/MED PHYS 535 – INTRODUCTION TO ENERGY-TISSUE INTERACTIONS**

3 credits.

Explore physical interactions between thermal, electromagnetic and acoustic energies and biological tissues with emphasis on therapeutic medical applications.

**Requisites:** Graduate student or senior level in Engineering or Medical Physics or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**B M E 545 – ENGINEERING EXTRACELLULAR MATRICES**

3 credits.

Overview of the structure, function and biophysical properties of extracellular matrix (ECM) proteins, followed by discussion of how control or manipulation of ECM protein expression and distribution impacts on cell and tissue function, concluding with impacts of engineering ECM for regenerative medicine. , BME 430 or equiv. Also recommended: ZOOLOGY 570 or equiv., BMOLCHEM 503 or equiv

**Requisites:** ZOOLOGY/BIOLOGY/BOTANY 151 or equiv.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**B M E 550 – INTRODUCTION TO BIOLOGICAL AND MEDICAL MICROSYSTEMS**

3 credits.

Introduces students to the field of MEMS (Micro-Electro-Mechanical-Systems), as it applies to biology and medicine. Topics will cover methodology of traditional MEMS devices, how they can be incorporated with biological systems, and methods for micro-structuring biological materials.

**Requisites:** Zool 152, BME 310, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**B M E 556 – SYSTEMS BIOLOGY: MAMMALIAN SIGNALING NETWORKS**

3 credits.

Introduction to the experimental and mathematical modeling techniques used in systems biology through lectures and critical analyses of relevant publications with a primary focus on gene/protein networks and mammalian systems.

**Requisites:** ZOOLOGY 570 or BME 510; and MATH 319 or MATH 320 or MATH 340; or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**B M E/CBE 560 – BIOCHEMICAL ENGINEERING**

3 credits.

Properties of biological molecules; enzyme kinetics, enzyme reactors, and enzyme engineering; metabolic engineering; microbial growth kinetics; bioreactor design; bioseparations.

**Requisites:** CBE 310; CBE/B M E 320; Zoo 151 or 153; or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**B M E/ I SY E 564 – OCCUPATIONAL ERGONOMICS AND BIOMECHANICS**

3 credits.

Introduces engineers how to design manufacturing and industrial operations in which people play a significant role, so that human capabilities are maximized, physical stress is minimized, and workload is optimized. Examples and topics emphasize industrial applications.

**Requisites:** ISYE 349, or Biomed Engr 315, or Grad standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**B M E/MED PHYS 566 – PHYSICS OF RADIOTHERAPY**

4 credits.

Ionizing radiation use in radiation therapy to cause controlled biological effects in cancer patients. Physics of the interaction of the various radiation modalities with body-equivalent materials, and physical aspects of clinical applications; lecture and lab.

**Requisites:** B M E/H ONCOL/MED PHYS/PHYSICS/B M E/H ONCOL/ MED PHYS 501

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**B M E/MED PHYS 567 – THE PHYSICS OF DIAGNOSTIC RADIOLOGY**

4 credits.

Physics of x-ray diagnostic procedures and equipment, radiation safety, general imaging considerations; lecture and lab.

**Requisites:** Modern physics, calculus, and Fourier analysis, or consent of instructor

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**B M E/MED PHYS 568 – MAGNETIC RESONANCE IMAGING (MRI)**

3 credits.

Physics and technology of magnetic resonance imaging (MRI), emphasizing techniques employed in medical diagnostic imaging. Major topics: physics of MR, pulse sequences, hardware, imaging techniques, artifacts, and spectroscopic localization. Crses in other med imaging tech e.g. Med Phys 567, crses in signal processing, or Med Phys 573 recommended

**Requisites:** Crses in mod physics calc, incl Fourier Anal, req.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**B M E/MED PHYS 573 – MEDICAL IMAGE SCIENCE: MATHEMATICAL AND CONCEPTUAL FOUNDATIONS**

3 credits.

The conceptual and mathematical foundations of medical imaging, including both deterministic and stochastic aspects.

**Requisites:** 1 yr each of undergrad physics calc or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**B M E/MED PHYS 574 – IMAGINE IN MEDICINE: APPLICATIONS**

3 credits.

Continuation of 573, with application of concepts to practical medical imaging problems and emerging quantitative imaging techniques.

**Requisites:** B M E/MED PHYS/B M E 573

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**B M E/MED PHYS 575 – DIAGNOSTIC ULTRASOUND PHYSICS**

2-3 credits.

Propagation of ultrasonic waves in biological tissues; principles of ultrasonic measuring and imaging instrumentation; design and use of currently available tools for performance evaluation of diagnostic instrumentation; biological effects of ultrasound.

**Requisites:** Modern physics, calculus Fourier analysis or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**B M E/MED PHYS 578 – NON-IONIZING DIAGNOSTIC IMAGING**

3 credits.

This is a graduate level core course covering the physics associated with magnetic resonance imaging and diagnostic ultrasound emphasizing techniques employed in medical diagnostic imaging. Major MRI topics include: physics of MR, pulse sequences, hardware, imaging techniques, artifacts, and spectroscopic localization. Ultrasound based topics covered include: propagation of ultrasonic waves in biological tissues, principles of ultrasonic measuring and imaging instrumentation, design and use of currently available tools for performance evaluation of diagnostic instrumentation, and biological effects of ultrasound. At the completion of this course, students should have an understanding of the technical and scientific details of modern non-ionizing medical magnetic resonance and ultrasound devices and their use in diagnosing disease. Medical Physics 573 ("Imaging in Medicine") is useful but not a specific prerequisite.

**Requisites:** MATH 222, PHYSICS 202

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**B M E 601 – SPECIAL TOPICS IN BIOMEDICAL ENGINEERING**

1-3 credits.

Topics vary.

**Requisites:** Grad st or cons inst

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**B M E/M E 603 – TOPICS IN BIO-MEDICAL ENGINEERING**

1-3 credits.

Various aspects of living systems of interest to the mechanical engineer, such as the mechanics of hearing and vision, cardiac and central nervous systems, artificial organs, blood flow behavior, and energy-transfer processes.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**B M E 615 – TISSUE MECHANICS**

3 credits.

This course will focus on solid mechanics of prominent musculoskeletal and cardiovascular tissues. Their normal and pathological behaviors (stiffness, strength, relaxation, creep, adaptive remodeling, etc.) in response to physiologic loading will be examined and quantified.

**Requisites:** BME 315 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**B M E/MED PHYS/PHMCO-M/PHYSICS/RADIOL 619 – MICROSCOPY OF LIFE**

3 credits.

Survey of state of the art microscopic, cellular and molecular imaging techniques, beginning with subcellular microscopy and finishing with whole animal imaging.

**Requisites:** PHYSICS 104, 202, 208, or 248 or MED PHYS/PHYSICS/ MED PHYS 265

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**B M E/CHEM/MED PHYS 650 – BIOLOGICAL OPTICAL MICROSCOPY**

3 credits.

This course for graduate students will cover several aspects of state of the art biological and biophysical imaging. We will begin with an overview of geometrical optics and optical and fluorescence microscopy, with an emphasis on instrumentation. The bulk of the course will focus on advanced imaging techniques including nonlinear optical processes (multi-photon excitation, second harmonic generation, and stimulated Raman processes) and emerging super-resolution methods. Special emphasis will be given to current imaging literature and experimental design.

**Requisites:** Senior or Graduate standing, and CHEM 104 or 109 or 116 and, PHYSICS 104 or 202 or 208

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**B M E/I SY E 662 – DESIGN AND HUMAN DISABILITY AND AGING**

3 credits.

Design of products for persons with physical, sensory or cognitive impairments is covered as well as the design of standard mass market products. Interdisciplinary teams explore specific disabilities, then design a standard mass market product in competition with each other.

**Requisites:** Jr st or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**B M E 699 – ADVANCED INDEPENDENT STUDY**

1-5 credits.

Under faculty supervision.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**B M E 701 – SEMINAR IN BIOMEDICAL ENGINEERING**

0 credits.

Speakers present current research, reviews of previous research, or topics of interest to biomedical engineering graduate students and faculty.

**Requisites:** Grad st in biomedical engineering

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**B M E 702 – GRADUATE COOPERATIVE EDUCATION PROGRAM**

1-2 credits.

Work experience that combines classroom theory with practical knowledge of operations to provide students with a background on which to develop and enhance a professional career. The work experience is tailored for MS students from within the U.S. as well as eligible international students.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**B M E/MED PHYS 710 – ADVANCES IN MEDICAL MAGNETIC RESONANCE**

3 credits.

This course studies in some depth the theory and applications of magnetic resonance (MR) in medicine. It provides the necessary theoretical background to understand advanced MR techniques including magnetic resonance imaging (MRI).

**Requisites:** B M E/MED PHYS/B M E 568

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**B M E/E C E 762 – BIOMEDICAL INSTRUMENTATION**

3 credits.

Design and application of specialized biomedical instrumentation. Information retrieval techniques. Lab.

**Requisites:** ECE 462 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**B M E/E C E 763 – PROJECTS IN COMPUTERS IN MEDICINE**

3 credits.

Applications of digital computers to the solution of problems in clinical and research medicine. Hardware and software student projects.

**Requisites:** ECE 463

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**B M E/MED PHYS/PHYSICS 775 – ADVANCED ULTRASOUND PHYSICS**  
3 credits.

Foundations of acoustic wave equations, diffraction phenomena and acoustic beam formation, models for acoustic scattering from discrete structures and inhomogeneous continua, speckle statistics including speckle correlation, applications of these topics in medical imaging.

**Requisites:** Med Phys 575, PHYSICS 311, 322, 325, MATH 234, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**B M E 780 – METHODS IN QUANTITATIVE BIOLOGY**

1 credit.

Focuses on understanding the key methods and principles of quantitative biology through a close reading of the primary literature. Topics covered will include deterministic and stochastic methods for modeling cellular systems, techniques in systems and synthetic biology, image processing tools and image analysis for biology, data-driven network models, genomic approaches, single-molecule approaches, and key computational biology tools. This course is intended for graduate students from a variety of backgrounds who are interested in pursuing quantitative biology during their graduate studies. Students who have a background in differential equations and linear algebra and cell biology will find themselves well prepared for this course.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**B M E/CBE 782 – MODELING BIOLOGICAL SYSTEMS**

3 credits.

Literature survey of mathematical models in biology at the molecular and cellular levels; application of chemical kinetics and thermodynamics to biological systems; comparison of deterministic and stochastic strategies.

**Requisites:** MATH 319 or 320 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**B M E/CBE 783 – DESIGN OF BIOLOGICAL MOLECULES**

3 credits.

Introduction to the methodologies for engineering the structure and function of biological molecules, especially proteins. Students will develop an understanding for the integration of computation and experiment to address biological molecular engineering problems.

**Requisites:** Biocore 303 or BIOCHEM 501 or ZOOLOGY 570; or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**B M E 790 – MASTER'S RESEARCH AND THESIS**

1-9 credits.

Under faculty supervision.

**Requisites:** Grad st; for Master's candidates only

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**B M E/PHM SCI 801 – SEMINAR ON DEVELOPMENT OF MEDICAL DEVICES AND DRUGS**

1 credit.

An overview of three major sectors of medical product and technology development including pharmaceuticals, medical devices and combination products. Regulatory framework, disclosure and patenting, technical design and development strategy, academia-specific development challenges will be among the major lecture topics.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**B M E 890 – PRE-DISSERTATION RESEARCH**

1-9 credits.

Under faculty supervision.

**Requisites:** Grad st; for pre-dissertators only

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**B M E/B M I/BIOCHEM/CBE/COMP SCI/GENETICS 915 – COMPUTATION AND INFORMATICS IN BIOLOGY AND MEDICINE**

1 credit.

Participants and outside speakers will discuss current research in computation and informatics in biology and medicine. This seminar is required of all CIBM program trainees.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**B M E 990 – RESEARCH AND THESIS**

1-9 credits.

Under faculty supervision.

**Requisites:** Dissertator status cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**B M E 999 – ADVANCED INDEPENDENT STUDY**

1-9 credits.

Under faculty supervision.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**BIOSTATISTICS AND MEDICAL INFORMATICS (B M I)****B M I/POP HLTH 451 – INTRODUCTION TO SAS PROGRAMMING FOR POPULATION HEALTH**

2 credits.

Use of the SAS programming language for the management and analysis of biomedical data.

**Requisites:** Pop Hlth grad student or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**B M I/STAT 511 – INTRODUCTION TO BIOSTATISTICAL METHODS FOR PUBLIC HEALTH**

3 credits.

Provides breadth in biostatistical methods for public health practitioners. Topics will include research design, data collection methods and database management, statistical computing and programming, descriptive statistics in tables and graphics, introductory statistical methods, and survey sampling. Not open to students who have taken BMI/STAT/B M I 541 or BMI/POP HLTH/B M I 551

**Requisites:** Declared in the Master of Public Health (MPH) program.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**B M I/STAT 541 – INTRODUCTION TO BIOSTATISTICS**

3 credits.

Course designed for the biomedical researcher. Topics include: descriptive statistics, hypothesis testing, estimation, confidence intervals, t-tests, chi-squared tests, analysis of variance, linear regression, correlation, nonparametric tests, survival analysis and odds ratio. Biomedical applications used for each topic. Students may not enroll if they have completed BMI 511 or BMI 551.

**Requisites:** Graduate standing.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**B M I/STAT 542 – INTRODUCTION TO CLINICAL TRIALS I**

3 credits.

Intended for biomedical researchers interested in the design and analysis of clinical trials. Topics include definition of hypotheses, measures of effectiveness, sample size, randomization, data collection and monitoring, and issues in statistical analysis. Statistics graduate students should take STAT/B M I 641.

**Requisites:** STAT/B M I 541 or equiv or cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**B M I 544 – INTRODUCTION TO CLINICAL TRIALS II**

3 credits.

Intended for biomedical researchers, focuses on design, implementation, and conduct of clinical trials. Topics include: regulatory requirements; data collection; data quality and management; budgets; federal, institutional, and sponsor-defined requirements; establishment of research infrastructures; preparation of investigator-INDs; investigator responsibilities.

**Requisites:** BMI 541 or equiv BMI 542 cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**B M I/STAT 546 – PRACTICUM IN CLINICAL TRIAL DATA ANALYSIS AND INTERPRETATION**

3 credits.

Provides practice in analysis and interpretation of existing datasets from national and international clinical trials in a variety of diseases. Students will develop a research question, review clinical protocols, and analyze available data to prepare a report.

**Requisites:** STAT/B M I 541 or 572 STAT/B M I 542 or 641**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2015**B M I/POP HLTH 551 – INTRODUCTION TO BIOSTATISTICS FOR POPULATION HEALTH**

3 credits.

Course designed for population health researcher. Topics include descriptive statistics, elementary probability, probability distributions, one- and two-sample normal inference (point estimation, hypothesis testing, confidence intervals), power and sample size calculations, one- and two-sample binomial inference, underlying assumptions and diagnostic work.

**Requisites:** Declared in the Population Health or Epidemiology graduate program; not open to students who have taken BMI/STAT/B M I 511 or BMI/STAT/B M I 541**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017



**B M I/POP HLTH 552 – REGRESSION METHODS FOR POPULATION HEALTH**

3 credits.

Introduction to the primary statistical tools used in epidemiology and health services research; multiple linear regression, logistic regression and survival analysis.

**Requisites:** Pop Hlth/BMI 451 and Pop Hlth/BMI 551 ; or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**B M I/COMP SCI 567 – MEDICAL IMAGE ANALYSIS**

3 credits.

Present introductory medical image processing and analysis techniques. Topics include medical imaging formats, segmentation, registration, image quantification, classification. Strongly encourage Matlab experience, such as COMP SCI 310 or 368-Matlab.

**Requisites:** (MATH 320 or 340) and (B M I/STAT/B M I 511, 541, B M I/POP HLTH/B M I 551, STAT 324, 371, or FW ECOL/HORT/STAT/F&W ECOL/HORT 571) or graduate or professional standing

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**B M I/COMP SCI 576 – INTRODUCTION TO BIOINFORMATICS**

3 credits.

Algorithms for computational problems in molecular biology. The course will study algorithms for problems such as: genome sequencing and mapping, pairwise and multiple sequence alignment, modeling sequence classes and features, phylogenetic tree construction, and gene-expression data analysis.

**Requisites:** (COMP SCI 300 or 367) and MATH 222 or graduate or professional standing

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**B M I/BIOCHEM/BMOLCHEM/MATH 606 – MATHEMATICAL METHODS FOR STRUCTURAL BIOLOGY**

3 credits.

Intended to provide a rigorous foundation for mathematical modeling of biological structures. Mathematical techniques include ordinary and partial differential equations, 3D Fourier analysis and optimization.

Biological applications include protein folding, molecular dynamics, implicit solvent electrostatics, and molecular interactions.

**Requisites:** (MATH 234 or 320) and (COMP SCI 301 or 302)

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**B M I/BIOCHEM/BMOLCHEM/MATH 609 – MATHEMATICAL METHODS FOR SYSTEMS BIOLOGY**

3 credits.

Intended to provide a rigorous foundation for mathematical modeling of biological systems. Mathematical techniques include dynamical systems and differential equations. Applications to biological pathways, including understanding of bistability within chemical reaction systems, are emphasized.

**Requisites:** MATH 340 or 341; MATH 415, or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**B M I/I SY E/L I S 617 – HEALTH INFORMATION SYSTEMS**

3 credits.

Provides grounding in core concepts of health information systems. Major applications include clinical information systems, language and standards, decision support, image technology and digital libraries. Evaluation of IE tools and perspectives designed to improve the quality, efficiency and effectiveness of health information.

**Requisites:** I SY E 417

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**B M I/STAT 641 – STATISTICAL METHODS FOR CLINICAL TRIALS**

3 credits.

Statistical issues in the design of clinical trials, basic survival analysis, data collection and sequential monitoring. Intended for statistics graduate students; those with medical backgrounds should take STAT/B M I 542.

**Requisites:** Math/STAT/MATH 310 or equiv or cons inst

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**B M I/STAT 642 – STATISTICAL METHODS FOR EPIDEMIOLOGY**

3 credits.

Methods for analysis of case-control, cross sectional, and cohort studies. Covers epidemiologic study design, measures of association, rates, classical contingency table methods, and logistic and Poisson regression.

**Requisites:** Statistics 310 or equivalent or consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**B M I/POP HLTH 651 – ADVANCED REGRESSION METHODS FOR POPULATION HEALTH**

3 credits.

Extension of regression analysis to observational data with unequal variance, unequal sampling and propensity weights, clusters and longitudinal measurements, using different variance structures, mixed linear models, generalized linear models and GEE. Matrix notation will be introduced and underlying mathematical and statistical principles will be explained. Examples use data sets from ongoing population health research.

**Requisites:** Pop Hlth 798 and Pop Hlth 552; or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**B M I/POP HLTH 652 – TOPICS IN BIOSTATISTICS FOR EPIDEMIOLOGY**

1-3 credits.

Each module will adopt an in-depth focus on a biostatistical method of particular relevance to epidemiology such as measurement error, missing data, intermediate variables, complex study designs, meta-analysis, splines, propensity scores, causal inference, spatial statistics and resampling. One or more modules will be offered every spring semester.

**Requisites:** B M I/POP HLTH/B M I 551, B M I/POP HLTH/B M I 552, and (STAT 850 or B M I/POP HLTH/B M I 651)**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**B M I 699 – INDEPENDENT STUDY**

1-3 credits.

Directed study to pursue knowledge beyond curriculum.

**Requisites:** Jr st or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**B M I/STAT 741 – SURVIVAL ANALYSIS THEORY AND METHODS**

3 credits.

Theory and practice of analytic methods for censored survival data, including nonparametric and parametric methods, the proportional hazards regression model, and a review of current topics in survival analysis.

**Requisites:** STAT 610 or 710 or equivalent or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**B M I/COMP SCI 767 – COMPUTATIONAL METHODS FOR MEDICAL IMAGE ANALYSIS**

3 credits.

Study of computational techniques that facilitate automated analysis, manipulation, denoising, and improvement of large-scale and high resolution medical images. Design and implementation of methods from computer Vision and Machine Learning to efficiently process such image data to answer biologically and clinically meaningful scientific questions. Students are strongly encouraged to have programming skills and basic proficiency in calculus and linear algebra, such as MATH 340.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**B M I/STAT 768 – STATISTICAL METHODS FOR MEDICAL IMAGE ANALYSIS**

3 credits.

Introduce key statistical methods and concepts for analyzing various medical images. Analyze publicly available and student/instructor supplied imaging data using the most up-to-date methods and tools. Aimed at graduate student and researchers with strong quantitative background. The course is self-contained. The knowledge of calculus and linear algebra is needed

**Requisites:** Two semesters of statistics courses (STAT/MATH 309-310), or the consent of instructor.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**B M I 773 – CLINICAL RESEARCH INFORMATICS**

3 credits.

Course will familiarize students with basic informatics principles and techniques to support clinical research. Content includes information systems for protocol design; regulatory compliance; approaches for patient recruitment; efficient protocol management; data collection and acquisition; data security, storage, transfer, processing and analysis.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**B M I/COMP SCI 776 – ADVANCED BIOINFORMATICS**

3 credits.

Advanced course covering computational problems in molecular biology. The course will study algorithms for problems such as: modeling sequence classes and features, phylogenetic tree construction, gene-expression data analysis, protein and RNA structure prediction, and whole-genome analysis and comparisons.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017

**B M I 826 – SPECIAL TOPICS IN BIOSTATISTICS AND BIOMEDICAL INFOMATICS**

1-3 credits.

Covers advanced topics in the areas of biostatistics and biomedical informatics. Includes reading and discussion of original literature and individual student projects.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**B M I/COMP SCI/PSYCH 841 – COMPUTATIONAL COGNITIVE SCIENCE**  
3 credits.

Studies the biological and computational basis of intelligence, by combining methods from cognitive science, artificial intelligence, machine learning, computational biology, and cognitive neuroscience. Requires ability to program.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**B M I/STAT 877 – STATISTICAL METHODS FOR MOLECULAR BIOLOGY**  
3 credits.

Develop statistical problems in gene mapping, high throughputomic data analysis, phylogenetics and sequence analysis. Introduce ideas of key methods using published data. Statisticians learn statistical basis for research methodology. Collaboration among students and with biologists is encouraged through projects. GENETICS 466 or equiv strongly recommended

**Requisites:** STAT/MATH 309-310 or 609-610 or 709-710 or equiv, or cons inst.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**B M I 899 – PRE-DISSERTATOR RESEARCH**

1-3 credits.

Pre-dissertator Research. Course is open to pre-dissertator students only.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**B M I/B M E/BIOCHEM/CBE/COMP SCI/GENETICS 915 – COMPUTATION AND INFORMATICS IN BIOLOGY AND MEDICINE**

1 credit.

Participants and outside speakers will discuss current research in computation and informatics in biology and medicine. This seminar is required of all CIBM program trainees.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**B M I/MEDICINE 918 – HEALTH INFORMATICS FOR MEDICAL STUDENTS**

2 credits.

Explore medical informatics as a new way to practice medicine with applications to patient care, electronic medical records, and patient safety.

**Requisites:** Basic computer literacy 4th yr Med st or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**B M I 990 – DISSERTATOR RESEARCH**

1-3 credits.

Dissertator Research. Course is open to dissertators only.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**BOTANY (BOTANY)****BOTANY 100 – SURVEY OF BOTANY**

3 credits.

Major emphasis on the roles of plants and microbes in past and present global ecology, and the past and present uses of plants and microbes by humans, including emerging applications of biotechnology. Lectures and short lab/discussions.

**Requisites:** Open to Fr**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017

**BOTANY/PL PATH 123 – PLANTS, PARASITES, AND PEOPLE**

3 credits.

The course will explore the interaction between society and plant-associated microbes. Topics include: the Irish potato famine, pesticides in current agriculture, role of economics and consumer preference in crop disease management and the release of genetically engineered organisms.

**Requisites:** Open to Fr**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**BOTANY/BIOLOGY 130 – GENERAL BOTANY**

5 credits.

Introduction to the basic principles and concepts of the biology of plants. An integrative approach stressing evolutionary sequences and the relationship between structure and function at succeeding levels of organization: molecule, cell, organism, population, community. Correlated lectures, laboratories, and discussions. HS or coll chem crse recommended

**Requisites:** Open to Fr; not open to stdts who have taken BOTANY 100 or Botany/ZOOLOGY/BIOLOGY/BOTANY 151-152.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**BOTANY/BIOLOGY/ZOOLOGY 151 – INTRODUCTORY BIOLOGY**

5 credits.

First semester of a two semester course designed for majors in biological sciences. Topics include: cell structure and function, cellular metabolism (enzymes, respiration, photosynthesis), information flow (DNA, RNA, protein), principles of genetics and selected topics in Animal Physiology. HS chem or concurrent registration in college chemistry strongly advised.

**Requisites:** Not recommended for students with credit already in Zoo/Bio 101, 102 or Botany/Bio 130**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**BOTANY/BIOLOGY/ZOOLOGY 152 – INTRODUCTORY BIOLOGY**

5 credits.

Second semester of a two semester course designed for majors in biological sciences. Continuation of 151. Topics include: selected topics in plant physiology, a survey of the five major kingdoms of organisms, speciation and evolutionary theory, and ecology at multiple levels of the biological hierarchy. Not recommended for students with credit already in Zoology/BIOLOGY/ZOOLOGY 101,102 or Botany/BIOLOGY/BOTANY 130

**Requisites:** Biology/Botany/ZOOLOGY/BIOLOGY/BOTANY 151.**Course Designation:** Gen Ed - Communication Part B

Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**BOTANY 240 – PLANTS AND HUMANS**

3 credits.

Plant parts and demonstrations of their utility to humans, origins of domesticated plants, modifications of plants by humans, ecosystem services owed to plants, and reasons to sustain plant diversity.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**BOTANY/ENVIR ST/ZOOLOGY 260 – INTRODUCTORY ECOLOGY**

3 credits.

For nonbiology students: the relationships of organisms and the environment. Population dynamics and community organization, human-environment relationships, action programs. Does not count toward Botany or Zoology major

**Requisites:** Open to Freshmen.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**BOTANY 265 – RAINFORESTS AND CORAL REEFS**

3 credits.

Are you awed by the amazing biodiversity found in rainforests and coral reefs? Want an opportunity to see these ecosystems first hand and decide if a career in tropical biology or international conservation is for you? This course focuses on the ecology of the world's most biodiverse ecosystems, and their global importance. Combining lecture with online discussions and case studies, you'll learn the physical, chemical, and biological processes that make rainforests and coral reefs function, and the history of human dependence upon these ecosystems. This course will help you understand why both of these ecosystems currently are threatened and what actions can and must be taken to protect them. An optional 10-day, 2 credit field expedition to a rainforest and/or coral reef site in Central or South America will be offered over winter break (BIOLOGY 399).

**Requisites:** None**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**BOTANY 299 – DIRECTED STUDY IN BOTANY**

1-3 credits.

Elementary level directed study/independent research. The purpose of this course to introduce undergraduate students to research questions and, facilitate their learning in the field of botany by providing them with guidance and mentorship in a research environment.

**Requisites:** Consent of instructor**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**BOTANY 300 – PLANT ANATOMY**

4 credits.

Plant structure and development of seed plants, primarily of flowering plants. Emphasis is placed on structure in relation to function and on the plant body as a structural and functional entity; lecture and lab.

**Requisites:** A 5 cr intro crse in botany**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**BOTANY 305 – PLANT MORPHOLOGY AND EVOLUTION**

4 credits.

A broad survey of the diversity of plants in the context of their evolutionary history. Similarities and differences in structure and reproduction among extant bryophytes, lycopods, ferns, gymnosperms, and flowering plants are emphasized along with the study of fossils representing extinct plant lineages.

**Requisites:** Introductory course in botany**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**BOTANY 330 – ALGAE**

3 credits.

Introduction to ecology, evolution, systematics, taxonomy, physiology, biochemistry, cell biology, and molecular biology of freshwater, terrestrial and marine algae. Lecture and lab. Lab emphasis on techniques for identification, culture, analysis of growth and reproduction, and community composition assessment.

**Requisites:** 5-cr intro botany crse or cons inst**Course Designation:** Gen Ed - Communication Part B

Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**BOTANY/PL PATH 332 – FUNGI**

4 credits.

Growth, development, variability and dispersal of saprophytic, parasitic, and symbiotic fungi, with a consideration of their ecological and economic significance.

**Requisites:** A 5 cr intro crse in botany**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**BOTANY/GEOG 338 – ENVIRONMENTAL BIOGEOGRAPHY**

3 credits.

This course will explore how physical and biological factors affect the distribution of terrestrial biomes, ecosystem types, and biodiversity; as well as the role of disturbance and recent human activities on differences in past and modern day species distributions.

**Requisites:** GEOG/ENVIR ST 120, 127 or consent of instructor

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BOTANY/AGRONOMY/HORT 339 – PLANT BIOTECHNOLOGY: PRINCIPLES AND TECHNIQUES I**

4 credits.

Theoretical and practical training in plant biotechnology including molecular biology, protein biochemistry and basic bioinformatic techniques used in fundamental and applied research on plants. Valuable hands-on training to those interested in careers in biotechnology.

**Requisites:** Bot/Zoo 152 or equiv CHEM 104 or equiv

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BOTANY/AGRONOMY/HORT 340 – PLANT CELL CULTURE AND GENETIC ENGINEERING**

4 credits.

Theoretical and practical training in plant cell and tissue culture, and plant genetic engineering. Includes overview of current techniques, biosafety and regulatory requirements, and experimental design and analysis used in fundamental and applied research on plants. Valuable hands-on training to those interested in careers in biotechnology.

**Requisites:** BOTANY/BIOLOGY 130 or Botany/Zoology/BIOLOGY/BOTANY/ZOOLOGY 152 or ZOOLOGY/BIOLOGY 102, and Chemistry 104, 109, or 116

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BOTANY/AGRONOMY/SOIL SCI 370 – GRASSLAND ECOLOGY**

3 credits.

Understand factors driving global, continental, regional, and local distribution of grasslands. Discuss how management affects provision of grassland ecosystem goods and services. Compare and contrast plant community and ecosystem dynamics in native prairie and intensively managed pastures.

**Requisites:** Intro crse in Agronomy, Botany, or Soil Sci; or Bot/Zoo/Biol 151-152; or Biocore 301 or 333

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BOTANY 400 – PLANT SYSTEMATICS**

4 credits.

Plant systematics; the integration of taxonomy (identification, nomenclature, classification emphasizing flowering plants), evolution (speciation, reproductive biology, adaptation, convergence, biogeography), and phylogenetics (phenetics, cladistics, morphology and molecules). Lab emphasis on representative families and genera of flowering plants in Wisconsin, use of keys and manuals, plant collection. Recommended for botany majors; lecture and lab.

**Requisites:** A 5 cr intro crse in botany

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BOTANY 401 – VASCULAR FLORA OF WISCONSIN**

4 credits.

Taxonomic survey of the vascular plants of Wisconsin, with emphasis on the angio-sperms. Lecture, lab and field work.

**Requisites:** A 5 cr intro col crse in bot or equiv

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**BOTANY/F&W ECOL 402 – DENDROLOGY**

2 credits.

Identification, ranges, uses, and some ecological characteristics of evergreen and deciduous woody plants, both native and cultivated; lab and field work.

**Requisites:** A 5 cr intro college crse in bot or equiv

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BOTANY 403 – FIELD COLLECTIONS AND IDENTIFICATION**

1-4 credits.

Students consult the instructor in the spring or summer for equipment and directions for making a plant collection in summer or fall. Open only to students who have made collections during the summer or will be making collections in early fall

**Requisites:** Bot 400 or 401.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**BOTANY/ANTHRO/ZOOLOGY 410 – EVOLUTIONARY BIOLOGY**

3 credits.

Evolutionary biology, emphasizing how modern scientists study evolution. Topics include: nature and mechanisms of microevolution, macroevolution, adaptation, speciation; systematics and taxonomy; quantitative genetics and measurement of natural selection; phylogenetic analyses of behavior, physiology, morphology, biochemistry; current controversies in evolution.

**Requisites:** An elem course in zool or botany So st; Genetics/Botany/Zool 160 or 466 recommended**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**BOTANY 422 – PLANT GEOGRAPHY**

3 credits.

Biogeography of plants. Relationship to climate and geology; paleobiogeography, vicariance and island biogeography; history and distribution of floras of North America and Wisconsin; lecture and demo lab; open to advanced students in the natural sciences.

**Requisites:** A crse in plant taxonomy is highly recommended**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**BOTANY/ZOOLOGY 450 – MIDWESTERN ECOLOGICAL ISSUES: A CASE STUDY APPROACH**

2 credits.

This web course explores how ecological principles can be used to address contemporary environmental issues such as water quality, invasive species, and population growth. Emphasis on midwestern issues, practical approaches, the role of history, and geographic context.

**Requisites:** Intro biology crse, interest in solving problems**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**BOTANY/F&W ECOL 455 – THE VEGETATION OF WISCONSIN**

4 credits.

Ecology of Wisconsin plant communities: floristic composition, community structure; relationship to history, climate, soil, and geology; response to human perturbation. Lecture and lab.

**Requisites:** BOTANY 100, or BOTANY/BIOLOGY 130, or Botany/ZOOLOGY/BIOLOGY/BOTANY 151-152, or Biocore 313**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**BOTANY/ZOOLOGY 459 – ECOLOGICAL TECHNIQUES FOR FIELD MONITORING**

1-2 credits.

Field techniques to inventory and census plant and animal species and ecological processes and how to assemble these into useful databases. Emphasis on 'keystone' and invading exotic species that strongly affect community dynamics. Aimed at science teachers interested in participating in a monitoring network. g. BOTANY/ZOOLOGY 450, 460), interest in monitoring, cons inst

**Requisites:** A crse in ecology (e.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2006



**BOTANY/F&W ECOL/ZOOLOGY 460 – GENERAL ECOLOGY**

4 credits.

Ecology of individual organisms, populations, communities, ecosystems, landscapes, and the biosphere. The interaction of organisms with each other and their physical environment. These relationships are studied, often in quantitative terms, in both field and laboratory settings; lecture and lab.

**Requisites:** Intro course in botany zoology, or Bot/Zoo 151-152, or Biocore 301 or 333; for biol sci majors only

**Course Designation:** Gen Ed - Quantitative Reasoning Part B  
Breadth - Biological Sci. Counts toward the Natural Sci req  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BOTANY 468 – PATTERNS IN BIOLOGICAL DESIGN: AN INTRODUCTION TO SYSTEMS BIOLOGY**

3 credits.

Holistic systems and biological design. Intuitive verbal models not mathematical techniques. Topics: scale problems; architecture of biological form; models for control, growth, and transport; general systems philosophy, theory of models, levels of organization, continuous versus catastrophic change; biological paradigms. Any intro botany crse; Math 101

**Requisites:** So st; computer experience recommended.

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**BOTANY/ENTOM/ZOOLOGY 473 – PLANT-INSECT INTERACTIONS**

3 credits.

Multiple ways in which arthropods exploit plants, plant traits that deter or augment insects, environmental mediation of these interactions, effects on population dynamics, community ecology and co-evolution, and implications to natural resource management, environmental quality, and sustainable development.

**Requisites:** One of the following: Bot/For/Zoo 460, Ent/PI Path/For 500, PI Path/Bot 505, Forestry 550, or ENTOM 342

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**BOTANY/AMER IND/ANTHRO 474 – ETHNOBOTANY**

3-4 credits.

Study of the interactions between human cultures and plants. Topics include: traditional resource management and agriculture; crop domestication, evolution, and conservation; archaeobotany; indigenous knowledge; folk taxonomy; plants in symbolism and religion; dietary patterns; phytochemistry; global movement of plants and peoples. g., BOTANY/BIOLOGY 130, BIOLOGY/BOTANY/ZOOLOGY 151) or cons inst

**Requisites:** A five credit course in botany or biology (e.

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Biological Science or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BOTANY 500 – PLANT PHYSIOLOGY**

3-4 credits.

An in-depth look at plant growth, development, respiration, photosynthesis, mineral nutrition, and water relations. For junior, senior and graduate students; not for those who have taken Biocore. In the laboratory, experimental approaches will be used to demonstrate principles described in lecture. 3-credit option (lecture only) available with consent of instructor. Undergrads must enroll for 4 cr (lec lab); Grads may enroll for 3 cr (lec only) or 4 cr

**Requisites:** Intro botany or biology sequence required; organic chem recomb.

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BOTANY/ENTOM/PL PATH 505 – PLANT-MICROBE INTERACTIONS: MOLECULAR AND ECOLOGICAL ASPECTS**

3 credits.

Molecular and ecological aspects of the interactions between plants and microorganisms. This course explores many of the themes, from genetic to integrative, of modern biology, and illustrates how study of plant-microbe interactions contributes to understanding of fundamental plant science. g. Bact 303); biochem (e.g. BIOCHEM 501); genetics (e.g. GENETICS 466) or cons inst

**Requisites:** An upper level crse in microbiol (e.

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BOTANY/GENETICS/HORT 561 – INTRODUCTORY CYTOGENETICS**

2-3 credits.

Mitosis, meiosis, variations in chromosome structure and number, cytological aspects of hybridity and apomixis; chromosomes as they affect breeding behavior.

**Requisites:** Genetics, Botany, Zoology 466 or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**BOTANY 563 – PHYLOGENETIC ANALYSIS OF MOLECULAR DATA**

3 credits.

A course in the theory and practice of phylogenetic inference from DNA sequence data.

**Requisites:** A crse in genetics/evolution/systematics a crse in stats/probability, or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**BOTANY 575 – SPECIAL TOPICS**

1-3 credits.

Topics of interest to undergraduates, taught as the need arises.

**Requisites:** Cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**BOTANY/BIOCHEM 621 – PLANT BIOCHEMISTRY**

3 credits.

Biochemistry of photosynthesis, respiration, cell walls, and other metabolic and biosynthetic processes in plants.

**Requisites:** Biochem BIOCHEM 501 or 507

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BOTANY/HORT/SOIL SCI 626 – MINERAL NUTRITION OF PLANTS**

3 credits.

Essential and beneficial elements, solutions and soil as nutrient sources, rhizosphere chemistry, nutritional physiology, ion uptake and translocation, functions of elements, nutrient interactions, genetics of plant nutrition.

**Requisites:** Botany 350 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BOTANY/GENETICS/MD GENET 629 – EVOLUTIONARY GENETICS**

3 credits.

Basic principles of phylogenetics, population genetics and quantitative genetics including the construction of gene trees, forces affecting the amount and distribution of genetic variation in populations, and the inheritance and evolution of multifactorial characters. Knowledge of intro calc stats or cons inst

**Requisites:** GENETICS 466 or Biocore 301 302 or equiv.

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**BOTANY/GENETICS/ZOOLOGY 645 – MODELING IN POPULATION GENETICS AND EVOLUTION**

3 credits.

Introduction to mathematical techniques and approaches for predicting evolutionary change within populations. Concentrates on classic population genetic models and results, including selection on one and several loci; mutation; non-random mating; drift. Evaluation based on periodic problem sets and independent projects.

**Requisites:** Intro evolution, intro genetics, calculus, or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**BOTANY/ENVIR ST/F&W ECOL/ZOOLOGY 651 – CONSERVATION BIOLOGY**

3 credits.

Application of ecological principles and human dimensions to the conservation of biological diversity. Topics: biodiversity science; conservation planning; population ecology; habitat loss, species exploitation, invasive species, pollution; human attitudes and activities as they affect the biosphere; approaches to monitoring interventions.

**Requisites:** An ecology crse (eg, Botany/ZOOLOGY/BOTANY/F&W ECOL 460)

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BOTANY/GENETICS/M M & I/MICROBIO/PL PATH 655 – BIOLOGY AND GENETICS OF FILAMENTOUS FUNGI**

3-4 credits.

Fungal genetics, genomics, and physiology using plant pathogenic fungi and the genetic models *Aspergillus nidulans* and *Neurospora crassa* as model systems to explore the current knowledge of fungal genetics and plant/fungal interactions.

**Requisites:** Cons inst; PI Path 300 332 recommended; GENETICS 466 or equiv; general microbiol crse

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**BOTANY/LAND ARC 670 – ADAPTIVE RESTORATION LAB**

2 credits.

Field experience in restoration as an adaptive process involving field experimentation; baseline data collection on restoration sites; design of experiments to advance restoration science; quantitative evaluation of restoration outcomes. Analysis and interpretation of data; development of a team report.

**Requisites:** a crse in ecology a crse in stats, or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**BOTANY/F&W ECOL/ZOOLOGY 672 – HISTORICAL ECOLOGY**

2 credits.

Historical Ecology is an area of ecology that considers the importance of past events for current ecosystems. Concepts and applications are emphasized. Multidisciplinary emphasis, for seniors and graduate students in biological sciences, social studies, and humanities. Discussion format.

**Requisites:** Graduate or senior standing and consent of instructor

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**BOTANY 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BOTANY 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BOTANY 691 – SENIOR THESIS**

2-3 credits.

Introduction to botanical research; if possible, plans for the thesis program should be made by the close of the junior year.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**BOTANY 692 – SENIOR THESIS**

2-3 credits.

Continuation of 691.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**BOTANY 698 – DIRECTED STUDY**

1-4 credits.

Graded on a Cr/N basis; requires cons inst

**Requisites:** Jr or Sr st.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**BOTANY 699 – DIRECTED STUDY**

1-4 credits.

Graded on a lettered basis; requires cons inst

**Requisites:** Jr or Sr st.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**BOTANY/ZOOLOGY 725 – ECOSYSTEM CONCEPTS**

3 credits.

Scope and objectives of ecosystem ecology; roles of theory, long-term studies, comparative studies, and large-scale experiments; scaling problems; ecosystem services and ecological economics; adaptive ecosystem assessment and management. Experience in modeling, programming, or stats

**Requisites:** Grad st.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**BOTANY 801 – ADVANCED PLANT COMMUNITY ECOLOGY**

4 credits.

Ecological determinants of plant community structure, dynamics, and diversity from an evolutionary perspective. Relations of vegetation types, physiognomy and phenology to plant adaptation and constraints. Gradient analysis, succession, nutrient cycling, plant-herbivore interactions, species richness. (Includes field trip to Great Smoky Mountains.)

**Requisites:** Bot 455, 460, or Biocore 333, and intro calculus**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**BOTANY 802 – PHYSIOLOGICAL PLANT ECOLOGY**

3 credits.

Gas exchange at the individual plant and community level, energy balance and water relations, nutrient cycling, biomechanical adaptations; growth analysis; adaptations to sun and shade, primary productivity models, physiological ecology of selected plant communities (arctic/alpine, boreal, chaparral, desert, tropical, aquatic). Lecture and lab.

**Requisites:** A crse in ecology or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**BOTANY/ENTOM/GENETICS/ZOOLOGY 820 – FOUNDATIONS OF EVOLUTION**

2 credits.

Through reading and analysis of the primary literature, this course will explore some of the most important themes and debates that have permeated evolutionary biology over the last 50 years. Students will read key papers related to each controversial topic, will debate the pros and cons of competing viewpoints, and will reflect on the relevance of the issues to contemporary evolutionary biology. Students will also write a paper that analyzes one topic in more detail. This course is intended for graduate students who plan to specialize in evolutionary biology, broadly construed.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**BOTANY/BIOCHEM/GENETICS 840 – REGULATORY MECHANISMS IN PLANT DEVELOPMENT**

3 credits.

Molecular mechanisms whereby endogenous and environmental regulatory factors control development; emphasis on stimulus perception and primary events in the signal chain leading to modulated gene expression and cellular development; lecture.

**Requisites:** BIOCHEM 501 or 601 BOTANY 500 or Biocore 301 323**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**BOTANY 858 – SPECIAL TOPICS IN PLANT PHYSIOLOGY**

1-3 credits.

Subjects vary. Lecture.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**BOTANY 860 – PLANT CELL BIOLOGY**

2 credits.

Structure/function relationships at the cellular level. Topics include the biogenesis of organelles, vesicle traffic, ion transport and signalling processes, and organization of the cytoskeleton and cell wall.

**Requisites:** BOTANY 500 or BIOCHEM 501 or 601**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**BOTANY/F&W ECOL/ZOOLOGY 879 – ADVANCED LANDSCAPE ECOLOGY**

3 credits.

Landscape ecology emphasizes spatial patterning—its development and importance for ecological processes—and often focuses on large regions. Concepts, methods, and applications of landscape ecology will be learned through lectures, readings, exercises in quantitative approaches, and an independent project.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**BOTANY/ATM OCN/CIV ENGR/ENVR ST/GEOSCI/ZOOLOGY 911 – LIMNOLOGY AND MARINE SCIENCE SEMINAR**

1 credit.

Sections in various fields of zoological research.

**Requisites:** Grad st in limnology marine sci grad prgm or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**BOTANY 920 – SEMINAR IN ALGOLOGY: FRESH WATER ALGAE**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**BOTANY/PL PATH 930 – SEMINAR-MYCOLOGY**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**BOTANY 940 – SEMINAR IN PLANT SYSTEMATICS AND EVOLUTION**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**BOTANY 941 – PLANT TAXONOMY JOURNAL REVIEW**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**BOTANY 950 – SEMINAR-PLANT ECOLOGY**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**BOTANY 951 – PLANT ECOLOGY JOURNAL REVIEW**

1 credit.

**Requisites:** Grad st in plant ecol or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**BOTANY/AGRONOMY/ATM OCN/ENTOM/ENVIR ST/F&W ECOL/GEOG/ZOOLOGY 953 – INTRODUCTION TO ECOLOGY RESEARCH AT UW-MADISON**

1-2 credits.

This seminar course will introduce new graduate students to the diversity of ecologists across the UW-Madison campus. Course meetings will include discussions of key topics in professional development, research presentations by faculty members, and discussions of assigned papers with senior graduate students.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**BOTANY 960 – SEMINAR-PLANT PHYSIOLOGY**

1 credit.

**Requisites:** Grad st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**BOTANY/ATM OCN/ENVIR ST/F&W ECOL/GEOG/GEOSCI/ZOOLOGY 980 – EARTH SYSTEM SCIENCE SEMINAR**

1 credit.

Topics in earth system science. Emphasis on the coupling between atmospheric, oceanic and land surface systems, involving physical geochemical and biological processes, and including interactions with human systems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**BOTANY 990 – RESEARCH-PHYCOLOGY**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**BOTANY 993 – RESEARCH: FUNGAL BIOLOGY**

1-12 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**BOTANY 994 – RESEARCH-PLANT SYSTEMATICS**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**BOTANY 995 – RESEARCH-PLANT ECOLOGY**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**BOTANY 996 – RESEARCH-PLANT PHYSIOLOGY**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**BOTANY 999 – INDEPENDENT WORK**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2011**CELL AND REGENERATIVE BIOLOGY  
(CRB)****CRB 610 – FUNDAMENTALS OF MAMMALIAN EMBRYOLOGY**

2 credits.

To provide graduate and advanced undergraduate students with a thorough grounding in the conceptual basis of mammalian development using the mouse (and sometimes other species) as a model system.

Graduate Students: Matriculation in any Master's/Doctoral Program in Biology or Bioengineering, or consent of instructor

**Requisites:** Undergraduates: 9 credit hours of introductory courses to Biological Sciences and consent of instructor; Junior Standing.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**CRB 630 – PROTEOMICS APPROACHES FOR BIOLOGISTS**

2 credits.

Proteomics and metabolomics are playing an increasingly important role in biology and medicine. Many biology labs are now starting to use proteomics and metabolomics in their research projects. This course is designed specifically for students in biological sciences who have interests to learn proteomics and metabolomics. It will integrate formal classroom lectures with one-on-one consultation. Lectures include the essential fundamentals and applications in mass spectrometry-based proteomics and metabolomics to address biological/medical problems. Meanwhile, one-on-one consultation will be offered to respond to students' individual needs, including the design of proteomics/metabolomics experiments, troubleshooting, and proper interpretation of the results. Students who take this course should have basic chemistry and biochemistry knowledge.

**Requisites:** Graduate student standing or BIOCHEM 501 or BIOCHEM 507

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**CRB 640 – FUNDAMENTALS OF STEM CELL AND REGENERATIVE BIOLOGY**

3 credits.

The course will provide a foundation to understand fundamental biological, mechanistic, and experimental concepts in the field of stem cell and regenerative biology. The course is designed for graduate students and advanced undergraduates with a significant background in one or more of the following fields: biochemistry, molecular biology and cell biology.

**Requisites:** Enrollment limited to students who have taken Biochemistry 507 or Biochemistry 508 or GENETICS 566 or ZOOLOGY 570.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CRB 650 – MOLECULAR AND CELLULAR ORGANOGENESIS**

3 credits.

The course is intended for graduate and advanced undergraduate students interested in developmental biology, stem cell biology, molecular basis of normal organ formation, and biomedical engineering. This course will cover the most current knowledge of the basic principles of organogenesis including the molecular and cellular pathways leading to normal organ development and tissue regeneration. Tissue/organ specification, differentiation, and developmental processes, focusing on molecular and associated signal transduction pathways and transcriptional regulation will be covered in depth. Current understanding of the role of stem cells in normal and abnormal development and regenerative biology is included.

**Requisites:** Introductory course in developmental biology such as ZOOLOGY 470, Mammalian Embryology, or other is recommended but not required.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**CRB 675 – TOPICS IN CELL AND REGENERATIVE BIOLOGY**

1-3 credits.

This course examines various special topics in Cell and Regenerative Biology. See Class Notes for additional information.

**Requisites:** Junior standing

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**CRB 699 – INDEPENDENT STUDY**

1-4 credits.

One-on-one learning experience allowing undergraduates to work with a faculty adviser to develop research projects and skills.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CRB/MEDICINE 701 – CELL SIGNALING AND HUMAN DISEASE**

1 credit.

This course is intended for PhD and MSTP students interested in medically relevant basic science. Landmark discoveries, as well as current knowledge and controversies in human health, with an emphasis on cancer biology, will be covered.

**Requisites:** Students must be enrolled in a PhD or MSTP program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CRB 800 – INTELLECTUAL PROPERTY, PATENTS AND LICENSING**

2 credits.

This course presents important core concepts, including intellectual property, patent law, trademarks, copyrights, trade secrets, licensing and patent litigation, all specific to the field of biotechnology. You'll learn about the types of intellectual property and how they fit together to protect a product or service. You'll understand the fundamentals of licensing and technology transfer and the important role of patent examines. You'll also explore the unique aspects of early-stage intellectual property, including market dynamics, pricing and valuation.

**Requisites:** Admission and enrollment in the Master of Science in Biotechnology Program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CRB 802 – BUSINESS OF BIOTECHNOLOGY: FUNDAMENTALS OF PRODUCT DEVELOPMENT**

2 credits.

The Business Fundamentals course is designed to give the Masters in Biotechnology students their first exposure to business principles as applied to the operation of biotechnology companies and serve as a foundation for the more advanced business curriculum. This course will lay the groundwork for students to fully appreciate the challenges inherent in translating scientific discoveries into a successful business. S. in Biotechnology Program at UW-Madison

**Requisites:** Admission and enrollment in the M.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CRB 803 – MOLECULAR TECHNOLOGIES I**

2 credits.

An intensive workshop that will teach biotechniques, biotechnology product development, and biotechnology applications interfaced with analytical, communication and teaching skills. This workshop will simulate the corporate and academic biotechnology setting. S. biotechnology prog

**Requisites:** Admission into the M.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CRB 804 – BIOTECHNOLOGY REGULATION AND ETHICS**

2 credits.

Biotechnology Regulation Ethics is designed as an introductory survey course of the political, legal, and ethical issues that have driven the development of the biotechnology industry. Special emphasis is given to FDA regulation of new drugs, devices, and biologics, and to federal regulation and ethics of human subjects research. Students should come away with an enhanced ability to understand how regulation and politics interact with business and finance to influence the formation and growth of biotechnology companies. Students will be introduced to the ethical issues that help shape public policy regarding applications of biotechnology. S. in Biotechnology Program at UW-Madison

**Requisites:** Admission and enrollment in the M.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CRB 820 – BIOTECHNOLOGY OPERATIONS**

5 credits.

Addresses issues related to the development and manufacture of products for human health, including medical devices and human therapeutics. Topics include regulatory affairs, quality control and validation, clinical and nonclinical studies.

**Requisites:** Declared in the Biotechnology graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CRB 824 – MOLECULAR TECHNOLOGIES II**

3 credits.

An intensive workshop that will teach biotechniques, biotechnology product development, and biotechnology applications interfaced with analytical, communication and teaching skills. This workshop will simulate the corporate and academic biotechnology setting. S. in biotechnology program

**Requisites:** Admission into the M.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CRB 830 – EARLY DRUG DISCOVERY**

4 credits.

Provides students with an overview of the early drug discovery process, including target identification and validation, generation of diverse chemical libraries, assay development and high throughput screening, lead optimization by compound profiling, and drug targeting and delivery. S. in biotechnology

**Requisites:** Admission to M.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CRB 834 – MOLECULAR TECHNOLOGIES III**

1 credit.

Covers theory and applications of drug discovery. Laboratory assays and methods focus on primary, secondary, and ADMETox (absorption, distribution, metabolism, excretion, toxicity) drug screening. In addition, students build communication skills while working on team projects and reporting scientific results. S. in biotechnology

**Requisites:** Admission to M.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CRB 841 – BUSINESS OF BIOTECHNOLOGY: CONTEMPORARY CHALLENGES AND APPLICATIONS**

2 credits.

This course presents contemporary issues in the business of biotechnology where students apply concepts critical to the success of modern biotechnology firms. Topics focus on modern problem-solving, including issues relating to leadership and management, product development and negotiation and licensing. S. in biotechnology

**Requisites:** Admission to M.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CRB 842 – BUSINESS OF BIOTECHNOLOGY: SUSTAINING GROWTH**

2 credits.

Examines how companies gain and sustain competitive advantages. To be successful, a company's strategy must permeate all departments and functional areas. Knowledge and skills gained from prior business courses (for instance, marketing, management, finance, accounting) will be applied to specific case studies exploring general corporate management and strategy with respect to the total enterprise. This discussion-based course draws heavily on experiential exercises to develop a deeper understanding of strategic management.

**Requisites:** Declared in the Biotechnology graduate program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**CRB 843 – PROJECT MANAGEMENT AND LEADERSHIP**

2 credits.

With a focus on the biotechnology and medical device industries provides an opportunity for students to share experiences and information and to practice leadership and project management knowledge and skills. It focuses upon understanding and developing a Project Management Plan. The course addresses the issues and various situations faced by Project Managers and their effective response.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**CRB 844 – ADVANCED BIOTECHNOLOGY: GLOBAL PERSPECTIVES**

4 credits.

Focuses on state-of-the-art topics of global importance. This course is designed as a capstone experience in which the skills and knowledge gained in the M.S. in Biotechnology Program are integrated and applied to achieve a new level of synthesis and depth of understanding about an important problem in biotechnology today. A major goal of this course is to deepen technical understanding of novel technologies, broaden awareness of ethical and regulatory issues in biotechnology globally, and increase awareness of opportunities for intellectual collaboration and entrepreneurship.

**Requisites:** Declared in the Biotechnology graduate program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**CRB 990 – RESEARCH AND THESIS**

1-9 credits.

Research and Thesis.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## CHEMICAL AND BIOLOGICAL ENGINEERING (CBE)

### CBE 1 – COOPERATIVE EDUCATION PROGRAM

1 credit.

Work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career.

**Requisites:** So st

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### CBE 250 – PROCESS SYNTHESIS

3 credits.

An introduction to the invention of processes for the large scale, low cost processing of materials such as water, chemicals, petroleum products, food, drugs and wastes. Open to students in any field.

**Requisites:** CHEM 329 or CHEM 343 or concurrent registration

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### CBE 255 – INTRODUCTION TO CHEMICAL PROCESS MODELING

3 credits.

Introduction to modeling of chemical processes and introduction to using modern computational tools to analyze the models.

**Requisites:** MATH 319 or 320 or con reg

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### CBE 310 – CHEMICAL PROCESS THERMODYNAMICS

3 credits.

Introduction to thermodynamics, energy balances, applications to steady state and unsteady state processes, behavior of pure fluids, chemical reaction equilibria.

**Requisites:** MATH 234, PHYSICS 201 or equiv; CBE 255 or equiv or con reg; CBE 250 with a grade of C or better

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### CBE 311 – THERMODYNAMICS OF MIXTURES

3 credits.

Properties of ideal and non-ideal vapors and liquids, ideal and non-ideal multicomponent vapor-liquid and liquid-liquid equilibria, complex chemical reaction equilibria, electrolytic solutions, surface thermodynamics, solid phase thermodynamics.

**Requisites:** CBE 310 with a grade of C or better

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### CBE/B M E 320 – INTRODUCTORY TRANSPORT PHENOMENA

4 credits.

Mass, momentum, and energy transport; calculation of transport coefficients; solution to problems in viscous flow, heat conduction, and diffusion; dimensional analysis; mass, momentum, and heat transfer coefficients; over-all balances; elementary applications.

**Requisites:** PHYSICS 201, MATH 319 or 320, CBE 250 with grade of C or better; or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### CBE 324 – TRANSPORT PHENOMENA LAB

3 credits.

Determination of thermodynamic properties, transport properties, and transfer coefficients; study of related phenomena.

**Requisites:** CBE 310 320, or concurrent registration; STAT 324

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### CBE 326 – MOMENTUM AND HEAT TRANSFER OPERATIONS

3 credits.

Analysis of chemical engineering operations involving fluid flow and heat transfer. Flow of fluids through ducts and porous media; motion of particulate matter in fluids; general design and operation of fluid-flow equipment. Conductive, convective and radiative heat exchange with and without phase change; general design and operation of heat-exchange equipment.

**Requisites:** CBE 310 320 with grades of C or better

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### CBE/B M E 330 – ENGINEERING PRINCIPLES OF MOLECULES, CELLS, AND TISSUES

3 credits.

Introduction to the fundamental principles of kinetics and transport that are relevant for the analysis of biological systems. Topics covered include concepts of reaction rate, stoichiometry, equilibrium, momentum/mass transport, and the interaction between transport and kinetics in biological systems.

**Requisites:** (E M A 201 or PHYSICS 201 or 207) and (MATH 319 or MATH 320) and (CHEM 104 or 109)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### CBE 361 – BIOMOLECULAR ENGINEERING LABORATORY

3 credits.

Instruction and laboratory experiments in basic molecular biology techniques, recombinant protein production, fermentation processes, protein purification and characterization, and related bioengineering laboratory topics. Geared towards chemical engineering students with interests in biotechnology and synthetic biology.

**Requisites:** CBE 250; Zoo 151 or 153 or equivalent; or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CBE 424 – OPERATIONS AND PROCESS LABORATORY**

5 credits.

Experiments in unit operations, and supervised individual assignments selected from areas such as: fluid dynamics, analytical methods, reaction kinetics, plastics technology, and use of computers in data processing and simulation.

**Requisites:** CBE 324, 326, 426 430; or consent of instructor**Course Designation:** Gen Ed - Communication Part B**Repeatable for Credit:** No**Last Taught:** Summer 2017**CBE/CHEM/E M A/M E 425 – UNDERGRADUATE RHEOLOGY SEMINAR**

1 credit.

Rheology seminar course encouraged for all interested in professions related to polymers, suspensions or rheology; will not count toward credit requirement of the major.

**Requisites:** Junior standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**CBE 426 – MASS TRANSFER OPERATIONS**

3 credits.

Analysis of chemical engineering operations involving mass transfer. Differential and stagewise separation processes; simultaneous heat and mass transfer; mass transfer accompanied by chemical reaction; general design and operation of mass-transfer equipment.

**Requisites:** CBE 311 320 with grades of C or better, or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**CBE 430 – CHEMICAL KINETICS AND REACTOR DESIGN**

3 credits.

Analysis and interpretation of kinetic data and catalytic phenomena; application of basic engineering principles to chemical reactor design.

**Requisites:** CBE 311 320; or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**CBE 440 – CHEMICAL ENGINEERING MATERIALS**

3 credits.

Structure and properties of metallic and nonmetallic materials of construction; interrelations between chemical bonding, structure, and behavior of materials.

**Requisites:** CHEM 345**Repeatable for Credit:** No**Last Taught:** Fall 2017**CBE 450 – PROCESS DESIGN**

3 credits.

Analysis and design of chemical processing systems and equipment.

**Requisites:** CBE 326, 426 430 or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**CBE 470 – PROCESS DYNAMICS AND CONTROL**

3 credits.

A systematic introduction to dynamic behavior and automatic control of industrial processes; lab includes instrumentation, measurement and control of process variables by using conventional hardware and real-time digital computers.

**Requisites:** CBE 326; CBE 430 or concurrent registration**Repeatable for Credit:** No**Last Taught:** Fall 2017**CBE 489 – HONORS IN RESEARCH**

1-3 credits.

Undergraduate honors research projects supervised by faculty members.

**Requisites:** Admission to CBE honors in research prgm**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CBE/CHEM 505 – ASPECTS OF INDUSTRIAL CHEMISTRY AND BUSINESS FUNDAMENTALS**

3 credits.

The objective of this course is to educate students in the chemistry and chemical engineering that defines societies' standard of living. Commercial chemical processes will be reviewed. Practical realities of how a discovery moves from research to commercial product will be taught through examples and case studies. Financial concepts that guide investment will be reviewed.

**Requisites:** Junior standing and CHEM 345**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**CBE/B M E 510 – INTRODUCTION TO TISSUE ENGINEERING**

3 credits.

Overview of tissue engineering, including discussion of cell sources, cell-material interactions, tailoring biomaterials, methods of culture and characterization of engineering tissues, ethical issues, concluding with case studies of specific types of tissue engineering. Optional laboratory exercises offered throughout semester.

**Requisites:** BME 430 or equiv, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CBE/B M E/BSE 517 – BIOLOGY IN ENGINEERING SEMINAR**

1 credit.

Current topics at the interface of biology and engineering with special emphasis on the ways in which engineers have contributed to knowledge and advances in biology.

**Requisites:** Jr st in engr one college-level biol crse**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**CBE/B M E 520 – STEM CELL BIOENGINEERING**

3 credits.

Covers engineering approaches that are used to understand and manipulate stem cells. Concepts covered include: introduction to stem cell biology, quantitative modeling of stem cell signaling, methods to engineer the stem cell microenvironment, and the role of stem cells in tissue development and regeneration.

**Requisites:** MATH 319 or 320, ZOOLOGY 470 or 570, CHEM 343, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CBE/M E 525 – MACROMOLECULAR HYDRODYNAMICS**

3 credits.

Observed phenomena in polymeric flow systems. Techniques of viscometry and viscoelastic measurements for polymeric fluids. Rheological models. Analytical solutions to flow problems: non-Newtonian viscosity, linear viscoelasticity, normal stresses, recoil, stress relaxation, etc. Dimensional analysis. Unit operations of the polymer industry: extrusion, blow molding, injection molding, mixing.

**Requisites:** CBE/B M E 320 or ME 363 or equivalent or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**CBE 535 – HETEROGENEOUS CATALYSIS: PRINCIPLES AND APPLICATIONS**

3 credits.

This course discusses catalytic phenomena, with extensions to reactor design and catalyst characterization. Examples will be drawn from current problems in catalysis.

**Requisites:** CBE 430 or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CBE 540 – POLYMER SCIENCE AND TECHNOLOGY**

3 credits.

Synthesis, properties, and fabrication of plastic materials of industrial importance.

**Requisites:** CHEM 345; CBE 326 430, or concurrent registration; STAT 324; or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CBE 541 – PLASTICS AND HIGH POLYMER LABORATORY**

1-3 credits.

Experiments on polymerization, fabrication, and testing of plastics.

**Requisites:** CBE 540 or concurrent registration; or CHEM 664 or concurrent registration

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**CBE/E C E/M S & E 544 – PROCESSING OF ELECTRONIC MATERIALS**

3 credits.

Physics and chemistry principles underlying microelectronic materials processing. Effects of processing on materials and structures important in microelectronic and opto-electronic devices.

**Requisites:** CBE 440 or MSE 351 or ECE 335; or cons inst

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2009

**CBE 547 – INTRODUCTION TO COLLOID AND INTERFACE SCIENCE**

3 credits.

Introduction to topics in colloid and interface science. Topics include: sedimentation and diffusion, solution thermodynamics, rheology, light scattering, surface tension and contact angle, adsorption, association colloids, particle interactions, electrokinetics, and colloidal stability.

**Requisites:** CHEM 561 or 562 or equiv, or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CBE 555 – SEMINAR-CHEMICAL ENGINEERING CONNECTIONS**

1 credit.

Considers a variety of current engineering applications and problems. Students will investigate background information on topics of their choice, and present seminars to describe how engineering fundamentals interact with societal impact and how our undergraduate education in chemical engineering is relevant to societal concerns at large.

**Requisites:** Sr st or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CBE/B M E 560 – BIOCHEMICAL ENGINEERING**

3 credits.

Properties of biological molecules; enzyme kinetics, enzyme reactors, and enzyme engineering; metabolic engineering; microbial growth kinetics; bioreactor design; bioseparations.

**Requisites:** CBE 310; CBE/B M E 320; Zoo 151 or 153; or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CBE 562 – SPECIAL TOPICS IN CHEMICAL ENGINEERING**

1-3 credits.

Topics of specialized interest to majors in chemical engineering. Given on demand.

**Requisites:** Jr st and cons inst

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CBE/M E 567 – SOLAR ENERGY TECHNOLOGY**

3 credits.

Radiant energy transfer and its application to solar exchangers; energy balances for solar exchangers, review of theory, economics, and practice of solar energy applications.

**Requisites:** ME 364 or CBE 326 or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**CBE 575 – INSTRUMENTAL ANALYSIS FOR CHEMICAL ENGINEERS**

3 credits.

Instrumental methods as applied to chemical and physical processes in chemical engineering. Spectroscopic, optical, and electrochemical methods; chromatography, differential thermal analysis, and microscopy.

**Requisites:** CBE 324 or consent of instructor**Repeatable for Credit:** No**Last Taught:** Spring 2017**CBE 599 – SPECIAL PROBLEMS**

1-4 credits.

Research or independent study.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CBE 620 – INTERMEDIATE TRANSPORT PHENOMENA**

3 credits.

Mass, momentum, and energy transport; kinetic theory of transport properties; analytical and approximate solutions to the equations of change; boundary layer theory; turbulence; simultaneous heat and mass transfer; multicomponent diffusion.

**Requisites:** Grad standing in CBE or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CBE 660 – INTERMEDIATE PROBLEMS IN CHEMICAL ENGINEERING**

3 credits.

Illustrations of solving chemical engineering problems by using a variety of mathematical topics such as ordinary and partial differential equations, Laplace transform, Bessel functions, matrices, and tensor analysis. Problem formulation and interpretation of results emphasized.

**Requisites:** Grad st in CBE or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CBE 699 – ADVANCED INDEPENDENT STUDIES**

1-5 credits.

Research on assigned topics.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CBE 702 – GRADUATE COOPERATIVE EDUCATION PROGRAM**

1-2 credits.

Work experience that combines classroom theory with practical knowledge of operations to provide students with a background on which to develop and enhance a professional career. The work experience is tailored for MS students from within the U.S. as well as eligible international students.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**CBE 710 – ADVANCED CHEMICAL ENGINEERING THERMODYNAMICS**

3 credits.

Application of thermodynamic principles to selected topics, including equations of state, non-ideal solutions, and complex physical and chemical equilibria.

**Requisites:** Grad st in CBE or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CBE 720 – PHYSICOCHEMICAL HYDRODYNAMICS**

3 credits.

Tensor analysis; partial differential equations for multi-component fluid mixtures; applications to laminar flow, turbulent flow, porous media, particulate systems; two-phase flow problems; interfacial transport; boundary-layer methods and variational procedures.

**Requisites:** CBE 620 660, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**CBE 731 – COMPUTATIONAL MODELLING OF REACTIVE SYSTEMS**

3 credits.

Principles of computer-aided modelling of chemical reaction systems. Formulation, numerical solution and sensitivity analysis of reactor models. Bayesian estimation of parameters. Iterative strategies for model development. Structure and use of related software.

**Requisites:** Grad st in CBE or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2010**CBE 735 – KINETICS AND CATALYSIS**

2-3 credits.

Survey of kinetic principles and factors which influence reaction rates, with particular emphasis on catalysts and catalytic reactions. May include a seminar on modern catalytic research.

**Requisites:** Grad st in CBE or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017



**CBE 747 – ADVANCED COLLOID AND INTERFACE SCIENCE**

3 credits.

Advanced topics in colloid and interface science. Topics include: intermolecular forces, stability of thin films, association colloids, liquid crystals, microhydrodynamics, electrostatics, electrokinetics, colloidal stability, and dispersion rheology.

**Requisites:** CBE 547 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**CBE 750 – ADVANCED CHEMICAL PROCESS SYNTHESIS AND OPTIMIZATION**

3 credits.

Methodologies for synthesis and optimization of chemical process systems. Application of linear, nonlinear, and mixed integer programming to steady state process optimization, production planning, and flowsheet synthesis.

**Requisites:** Graduate standing in CBE or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**CBE 770 – ADVANCED PROCESS DYNAMICS AND CONTROL**

3 credits.

Modern methods for the mathematical analysis and control of dynamical systems. Application to physico-chemical systems. Real-time computer control.

**Requisites:** Grad st in CBE or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CBE/E C E/MATH 777 – NONLINEAR DYNAMICS, BIFURCATIONS AND CHAOS**

3 credits.

Advanced interdisciplinary introduction to qualitative and geometric methods for dissipative nonlinear dynamical systems. Local bifurcations of ordinary differential equations and maps. Chaotic attractors, horseshoes and detection of chaos.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**CBE 781 – BIOLOGICAL ENGINEERING: MOLECULES, CELLS & SYSTEMS**

3 credits.

Protein engineering and protein-protein interactions, receptor-ligand binding, cell metabolism and signaling, metabolic engineering and synthetic biology, tissue engineering. Additional topics may be covered such as: regenerative medicine, biomaterials, microbe-host interactions.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CBE/B M E 782 – MODELING BIOLOGICAL SYSTEMS**

3 credits.

Literature survey of mathematical models in biology at the molecular and cellular levels; application of chemical kinetics and thermodynamics to biological systems; comparison of deterministic and stochastic strategies.

**Requisites:** MATH 319 or 320 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**CBE/B M E 783 – DESIGN OF BIOLOGICAL MOLECULES**

3 credits.

Introduction to the methodologies for engineering the structure and function of biological molecules, especially proteins. Students will develop an understanding for the integration of computation and experiment to address biological molecular engineering problems.

**Requisites:** Biocore 303 or BIOCHEM 501 or ZOOLOGY 570; or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CBE 790 – MASTER'S RESEARCH OR THESIS**

1-9 credits.

**Requisites:** Grad st, for Master's candidates only**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CBE 890 – PRE-DISSERTATOR'S RESEARCH**

1-9 credits.

**Requisites:** Grad st, for post-master's, pre-dissertator stdts only**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**CBE/B M E/B M I/BIOCHEM/COMP SCI/GENETICS 915 – COMPUTATION AND INFORMATICS IN BIOLOGY AND MEDICINE**

1 credit.

Participants and outside speakers will discuss current research in computation and informatics in biology and medicine. This seminar is required of all CIBM program trainees.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CBE 920 – SEMINAR ON ADVANCES IN TRANSPORT PHENOMENA**

1 credit.

Critical review of recent and current research in transport phenomena and allied disciplines.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2013**CBE/CHEM/E M A/M E 925 – RHEOLOGY RESEARCH SEMINAR**

1 credit.

Exploration of the most recent research literature on viscoelasticity, constitutive equations, non-Newtonian flow systems, fluid metering devices, kinetic theory of macromolecules, and rheoptical phenomena.

Periodic reports on recent advances made by research workers in the various rheology groups on the Madison campus.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**CBE/BIOCHEM/MICROBIO 932 – BIOTECHNOLOGY TRAINING PROGRAM SEMINAR**

1 credit.

Biotechnology Training Program trainees will present their research for critical review by audience. Required of Biotechnology Training Program trainees

**Requisites:** Grad st.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CBE 961 – SEMINAR-CHEMICAL ENGINEERING**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CBE 970 – SEMINAR ON PROCESS ANALYSIS, SYNTHESIS, DYNAMICS AND CONTROL**

1 credit.

Critical review of recent and current research in these areas.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**CBE 990 – THESIS-RESEARCH**

1-12 credits.

**Requisites:** Dissertator status**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CBE 999 – ADVANCED INDEPENDENT STUDIES**

1-6 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 1997

## CHEMISTRY (CHEM)

**CHEM 101 – GENERAL CHEMISTRY I LABORATORY**

1 credit.

Chemistry 101 is the laboratory only part of "Chemistry 103: General Chemistry I". CHEM 101 is intended only for students who have earned college credit prior to entering UW-Madison for a course that is equivalent to the lecture part of Chemistry 103, but not the laboratory part. Students need this lab experience or its equivalent before proceeding to Chemistry 104: General Chemistry II, the second semester of the General Chemistry sequence.

**Requisites:** Consent of instructor**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**CHEM 102 – GENERAL CHEMISTRY II LABORATORY**

1 credit.

Chemistry 102 is the laboratory only part of Chemistry 104: General Chemistry II. CHEM 102 is intended for students who have earned college credit prior to entering UW-Madison for a course that is equivalent to the lecture part of Chemistry 104, but not the laboratory part. Students need this lab experience or its equivalent to proceed to any intermediate level chemistry courses such as Organic Chemistry (341 or 343), Analytical Chemistry (327 or 329), and Inorganic Chemistry (311).

**Requisites:** Consent of instructor

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**CHEM 103 – GENERAL CHEMISTRY I**

4 credits.

Introduction. Stoichiometry and the mole concept, the behavior of gases, liquids and solids, thermochemistry, electronic structure of atoms and chemical bonding, descriptive chemistry of selected elements and compounds, intermolecular forces. For students taking one year or more of college chemistry; serves as a prereq for CHEM 104; lecture, lab and discussion.

**Requisites:** Suitable math placement score or completion of MATH 112, MATH 114, MATH 171 or equivalent; not open to students who have taken CHEM 109 or 115

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CHEM 104 – GENERAL CHEMISTRY II**

5 credits.

Principles and application of chemical equilibrium, coordination chemistry, oxidation-reduction and electrochemistry, kinetics, nuclear chemistry, introduction to organic chemistry. Lecture, lab, and discussion.

**Requisites:** CHEM 103 and MATH 112, 114, or 171; not open to students who have taken CHEM 109 or 115

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CHEM 105 – GENERAL CHEMISTRY I**

3 credits.

Stoichiometry and the mole concept, chemical reactions, thermochemistry, electronic structure of atoms, periodic properties, chemical bonding, intermolecular forces, and the behavior of gases, liquids and solids. First semester of a two-semester sequence for students taking one year or more of college chemistry; includes lecture and discussion. CHEM 105 is not open for general enrollment. The course provides a mechanism for awarding credit for experiences with no laboratory component, such as credit by examination. The combination of CHEM 101 and CHEM 105 is equivalent to CHEM 103. Not open to students with credit for CHEM 103, 109, or 115

**Requisites:** MATH 112, 114, or 171 or placement into MATH 211 or 221.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CHEM 106 – GENERAL CHEMISTRY II**

4 credits.

Principles and applications of chemical equilibrium, electrochemistry, thermodynamics, kinetics, organic chemistry and other topics that may include nuclear chemistry, biological chemistry and coordination chemistry. Second semester of a two-semester sequence for students taking one year or more of college chemistry; includes lecture and discussion. CHEM 106 is not open for general enrollment. The course provides a mechanism for awarding credit for experiences with no laboratory component, such as credit by examination. The combination of CHEM 102 and CHEM 106 is equivalent to CHEM 104. Not open to students with credit for CHEM 104, 109 or 115

**Requisites:** CHEM 103 or (CHEM 101 and CHEM 105) and (MATH 112, 114, or 171 or placement into MATH 211 or 221).

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CHEM 108 – CHEMISTRY IN OUR WORLD**

5 credits.

Chemistry 108 is a one-semester introductory course that includes selected topics in inorganic and organic chemistry. Emphasis is on relevance to biological, environmental and social issues. Chemistry 108 is not intended for students who expect to take additional chemistry courses and it does not satisfy any prerequisites for further chemistry courses. No HS chemistry required. 1 year HS chemistry is permitted. Open to first year students. Enrollment not permitted for students who have completed CHEM 104, 109 or 115

**Requisites:** Appropriate for students needing only one semester of chemistry.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**CHEM 109 – ADVANCED GENERAL CHEMISTRY**

5 credits.

A modern introduction to chemical principles that draws on current research themes. For students with good chemistry and mathematics background preparation who desire a one-semester coverage of general chemistry. Recommended for students intending majors in chemistry or allied fields. Lecture, lab, and discussion. Open to first year students. Enrollment not permitted for those who have completed CHEM 104 or 115

**Requisites:** At least 1 year HS chemistry; placement into MATH 221 or higher or equivalent math proficiency.

**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Physical Sci. Counts toward the Natural Sci req Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CHEM 115 – CHEMICAL PRINCIPLES I**

5 credits.

For specially well qualified students majoring in chemistry or chemical engineering. Lecture, lab, and quiz. Open to Fr

**Requisites:** Adv placement or adv HS chem, cr or con reg in MATH 221 or cons inst.

**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Physical Sci. Counts toward the Natural Sci req Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CHEM 116 – CHEMICAL PRINCIPLES II**

5 credits.

Continuation of Chemistry 115. Chemistry 115 and 116 satisfy the requirements for general chemistry and introductory analytical chemistry; lecture, lab, and discussion. Open to Fr

**Requisites:** CHEM 115 or cons inst.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Accelerated Honors (!)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CHEM 155 – STUDY ABROAD IN INTRODUCTORY CHEMISTRY**

1-6 credits.

Provides equivalency for study abroad courses in introductory chemistry that do not equate to existing UW-Madison chemistry courses.

**Requisites:** None

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**CHEM 260 – ENTERING RESEARCH I**

1 credit.

Seminar course designed primarily for sophomores or transfer students to begin independent research in chemistry. Taken concurrently with 1-3 research credits with faculty member. Supports independent research experience.

**Requisites:** None

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CHEM 261 – ENTERING RESEARCH II**

1 credit.

Seminar course for primarily sophomores or transfer students continuing independent research in chemistry. Taken concurrently with 1-3 research credits with faculty member. Supports independent research experience.

**Requisites:** Must have taken CHEM 260, or completed at least one semester of research with a faculty member.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**CHEM 299 – DIRECTED STUDY**

1-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CHEM 311 – CHEMISTRY ACROSS THE PERIODIC TABLE**

4 credits.

Explores the properties, reactions and uses of elements and compounds, with emphasis on coordination chemistry of transition-metal ions, bioinorganic chemistry, solid-state structure and main-group elements. The weekly three-hour laboratory introduces students to the synthesis and characterization of inorganic compounds. Open to Freshmen

**Requisites:** CHEM 109 or 104.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CHEM 327 – FUNDAMENTALS OF ANALYTICAL SCIENCE**

4 credits.

Fundamentals of chemical measurement in chemistry, biology, engineering, geology, and the medical sciences. Topics include equilibria of complex systems, spectroscopy, electrochemistry, separations, and quantitative laboratory technique. Lecture, lab, and discussion.

**Requisites:** CHEM 104 or CHEM 109**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHEM 329 – FUNDAMENTALS OF ANALYTICAL SCIENCE**

4 credits.

Fundamentals of chemical measurement in chemistry, biology, engineering, geology, and the medical sciences. Topics include equilibria of complex systems, spectroscopy, electrochemistry, separations, and quantitative laboratory technique. For chemistry majors, chemical engineering majors, and related majors. Lecture, lab, and discussion.

**Requisites:** CHEM 104 or CHEM 109**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Accelerated Honors (!)

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHEM 341 – ELEMENTARY ORGANIC CHEMISTRY**

3 credits.

Chemistry 341 is a single semester, terminal course covering selected topics in organic chemistry. Chemistry 341 is not equivalent to either Chemistry 343 or 345 and it does not satisfy the prerequisite for enrollment in Chemistry 345.

**Requisites:** CHEM 104, CHEM 109, or CHEM 116; not open to students who have taken CHEM 343 or CHEM 345**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHEM 342 – ELEMENTARY ORGANIC CHEMISTRY LABORATORY**

1 credit.

Chemistry 342 introduces organic laboratory techniques in synthesis, purification and spectral interpretation. The course is designed to accompany Chemistry 341 and topics closely follow Chemistry 341. For students who expect to take only one semester of organic chemistry and need only a single laboratory credit. Enrollment not permitted for students who have completed CHEM 344

**Requisites:** Completion of or concurrent enrollment in CHEM 341.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHEM 343 – INTRODUCTORY ORGANIC CHEMISTRY**

3 credits.

Chemistry 343 covers fundamental aspects of organic molecular structure, including stereochemistry, and introduces basic themes in organic reactivity. It is the first semester of a two-semester organic chemistry sequence. Chemistry 345 is the second course in the sequence. Class is for students expecting to take two semesters of organic chemistry.

**Requisites:** CHEM 104, 109, or 116**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHEM 344 – INTRODUCTORY ORGANIC CHEMISTRY LABORATORY**

2 credits.

Chemistry 344 introduces the basic synthesis, purification, and characterization techniques of organic chemistry, along with critical interpretation of experimental data. The laboratory includes material from both Chemistry 343 and 345. May not repeat CHEM 344 if previously earned credit for CHEM 344

**Requisites:** Completion of or concurrent enrollment in CHEM 345.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**CHEM 345 – INTERMEDIATE ORGANIC CHEMISTRY**

3 credits.

Chemistry 345 is the second course of a two-semester sequence in organic chemistry. It covers diverse themes in organic reactivity, building on a foundation provided in Chemistry 343. Chemistry 341 does not satisfy the prerequisite for 345.

**Requisites:** Grade of C or better in CHEM 343**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHEM 346 – INTERMEDIATE ORGANIC CHEMISTRY LABORATORY**

1-2 credits.

Multi-step synthetic processes. Advanced experimental techniques such as high-vacuum distillation. Independent research projects.

**Requisites:** CHEM 344 and 345**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHEM 350 – COMMUNICATING CHEMISTRY TO THE PUBLIC VIA DEMONSTRATIONS**

2 credits.

Through this course, students will gain experience in the safe and proper presentation of chemical demonstrations. They will join an experienced staff who enjoy doing demonstrations and who continue to develop the art of presenting them; students will learn from each other as well as staff and faculty from science departments, music, theater and other performing artists who combine their art with scientific experiments to share the joy and excitement of both artistic and scientific creativity. Public presentations will be offered both on and off campus to a wide variety of audiences (students, teachers, parents and the community at large) in a variety of settings (school settings and public venues).

**Requisites:** CHEM 103, 108 or 109**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHEM 353 – CHEMISTRY FOR HIGH SCHOOL TEACHERS**

2-4 credits.

An intensive course for teachers of high school chemistry to strengthen their fundamental knowledge of chemistry. Lectures, laboratory, discussion. Enrollment limited to participants in workshops sponsored by the Institute for Chemical Educ

**Requisites:** Cons inst.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2009**CHEM 355 – STUDY ABROAD IN INTERMEDIATE CHEMISTRY**

1-6 credits.

Provides equivalency for study abroad courses in intermediate chemistry that do not equate to existing UW-Madison chemistry courses.

**Requisites:** None**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**CHEM 375 – INTERMEDIATE TOPICS IN CHEMISTRY**

1-4 credits.

Various topics in chemistry at the intermediate level; intended for undergraduates. Offerings will require that students have completed a college level general chemistry course as a minimum. Additional requirements may apply depending on the topic.

**Requisites:** Consent of instructor**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CHEM/M S & E 421 – POLYMERIC MATERIALS**

3 credits.

Polymer chemistry and physics terminologies, structure-property relationship, polymer characterization, polymer synthesis, material requirements for optoelectronics including conjugated polymers, thin film transistors, light emitting diodes, non-linear optical materials, holographic data storage and liquid crystal polymers.

**Requisites:** CHEM 341 or equiv**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**CHEM/CBE/E M A/M E 425 – UNDERGRADUATE RHEOLOGY SEMINAR**

1 credit.

Rheology seminar course encouraged for all interested in professions related to polymers, suspensions or rheology; will not count toward credit requirement of the major.

**Requisites:** Junior standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011



**CHEM/CBE 505 – ASPECTS OF INDUSTRIAL CHEMISTRY AND BUSINESS FUNDAMENTALS**

3 credits.

The objective of this course is to educate students in the chemistry and chemical engineering that defines societies' standard of living. Commercial chemical processes will be reviewed. Practical realities of how a discovery moves from research to commercial product will be taught through examples and case studies. Financial concepts that guide investment will be reviewed.

**Requisites:** Junior standing and CHEM 345**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**CHEM 509 – SENIOR SEMINAR**

2 credits.

Senior Seminar provides an integrative experience that requires students to synthesize the knowledge and skills that have been introduced across the Chemistry curriculum. Through a series of seminars by faculty and advanced graduate students, specific research challenges will be identified. Groups of students will be formed and assigned the task of using the chemical literature to identify routes to the solutions of these problems, presenting their findings both in class presentations and written assignments.

**Requisites:** CHEM 561 or CHEM 565; completion of or concurrent enrollment in CHEM 563**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**CHEM 511 – ADVANCED INORGANIC CHEMISTRY**

3 credits.

Emphasizes the symmetry, structure and bonding of inorganic compounds. Selected topics may include applications in transition metal chemistry, organometallic chemistry, industrial catalysis, advanced bioinorganic chemistry, solid-state chemistry or main group chemistry. Students majoring or intending to major in chemistry should take CHEM 311 prior to taking CHEM 511.

**Requisites:** Students must have junior standing AND have taken or be concurrently enrolled in CHEM 345.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Accelerated Honors (!)

**Repeatable for Credit:** No**Last Taught:** Spring 2017**CHEM 524 – CHEMICAL INSTRUMENTATION**

3 credits.

Instrumental methods of measurements, as applied to modern chemical analysis; lecture and lab.

**Requisites:** CHEM 343, (CHEM 329 or 327), and PHYSICS (208 or 202)**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Accelerated Honors (!)

**Repeatable for Credit:** No**Last Taught:** Spring 2017**CHEM 547 – ADVANCED ORGANIC CHEMISTRY**

3 credits.

A third semester of descriptive organic chemistry.

**Requisites:** CHEM 345**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Accelerated Honors (!)

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHEM 555 – STUDY ABROAD IN ADVANCED CHEMISTRY**

1-6 credits.

Provides equivalency for study abroad courses in advanced chemistry that do not equate to existing UW-Madison chemistry courses.

**Requisites:** None**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**CHEM 561 – PHYSICAL CHEMISTRY**

3 credits.

Macroscopic theory: equilibrium thermodynamics, chemical kinetics and transport properties. Not for credit for those who have taken CHEM 565

**Requisites:** CHEM 327 or 329; MATH 222; PHYSICS 201 or 207.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Accelerated Honors (!)

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**CHEM 562 – PHYSICAL CHEMISTRY**

3 credits.

Molecular theory: quantum chemistry, molecular structure and spectra, statistical mechanics, selected topics in the molecular theory of matter in bulk.

**Requisites:** CHEM 561 or 565 or ChE 211; PHYSICS 202 or 208

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Accelerated Honors (!)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CHEM 563 – PHYSICAL CHEMISTRY LABORATORY**

1-2 credits.

Principles of experimental physical chemistry applied to the acquisition of thermodynamic and kinetic data; use of basic physical laboratory equipment; related computations, analysis of errors, interpretation of results.

**Requisites:** CHEM 561 or 565 or Ch E 211

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, for 2 number of completions

**Last Taught:** Fall 2017

**CHEM 564 – PHYSICAL CHEMISTRY LABORATORY**

1 credit.

Principles of experimental physical chemistry applied to the acquisition and interpretation of basic data on molecular structure and dynamics, and properties of macromolecules; principles and use of spectroscopic and other electronic instrumentation. Not for cr for those who have taken 567

**Requisites:** CHEM 562 and 563.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CHEM 565 – BIOPHYSICAL CHEMISTRY**

4 credits.

Equilibrium thermodynamics, chemical kinetics, and transport properties, with emphasis on solution behavior and applications to biological macromolecules in solution. For students interested primarily in the biological applications of physical chemistry. Not for credit for those who have taken CHEM 561

**Requisites:** CHEM 327 or 329; MATH 222; PHYSICS 201 or 207; Biocore 303, or BIOCHEM 501 or concurrent registration, or consent of instructor.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CHEM 567 – PHYSICAL CHEMISTRY LABORATORY**

2 credits.

Principles of experimental physical chemistry applied to the acquisition of thermodynamic and kinetic data; acquisition and interpretation of basic data on molecular structure and dynamics, and properties of macromolecules; principles and use of spectroscopic and other electronic instrumentation use of basic physical laboratory equipment; related computations, analysis of errors, interpretation of results. Not for cr for those who have taken 563 or 564

**Requisites:** Cr or con reg in CHEM 562.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**CHEM 575 – ADVANCED TOPICS IN CHEMISTRY**

1-4 credits.

Various topics in chemistry intended for advanced undergraduates. Students enrolling in this course will be required to have completed at least a college level general chemistry course and some 300 level chemistry course work. Additional requirements may apply depending on the topic.

**Requisites:** Consent of instructor

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**CHEM 605 – SPECTROCHEMICAL MEASUREMENTS**

3 credits.

Mass spectrometry and applied nuclear magnetic resonance. Two lecture sessions, or lectures, and one problem session per week.

**Requisites:** CHEM 562 or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CHEM 606 – PHYSICAL METHODS FOR STRUCTURE DETERMINATION**

1-3 credits.

A survey of spectroscopic methods for inorganic structure determination. This course will introduce the major non-crystallographic techniques with an emphasis on the application to structural analysis. The basic theory and methodology of each form of spectroscopy will be presented. Topics covered include: ligand field theory, electronic absorption, IR/Raman, Mossbauer and EPR spectroscopies, and magnetic susceptibility. CHEM 608 or equiv recommended

**Requisites:** CHEM 511 562 or cons inst.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**CHEM 607 – LABORATORY SAFETY**

1 credit.

Aspects of laboratory safety relating to chemical, electrical, optical, mechanical, cryogenic and radiological hazards will be discussed. Safety equipment, techniques (including first aid), and facilities will be introduced.

**Requisites:** CHEM 346 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CHEM 608 – SYMMETRY, BONDING, AND MOLECULAR SHAPES**

1-3 credits.

This course provides a solid background in elementary bonding theory and its application to understanding molecular geometry and reactivity. The course emphasizes qualitative methods applied to the bonding of elements from throughout the periodic table.

**Requisites:** Grad st or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CHEM 613 – CHEMICAL CRYSTALLOGRAPHY**

3 credits.

Theory of structural chemistry, experimental methods involved, applications to problems of chemical interest; use of diffractometric equipment and computer data analysis for an actual structure determination.

**Requisites:** CHEM 562 or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CHEM 621 – INSTRUMENTAL ANALYSIS**

3-4 credits.

Chemical instrumentation, spectrochemical, electrochemical and other methods of instrumental analysis; lecture and lab.

**Requisites:** Cr or con reg in CHEM 561 or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CHEM 622 – ORGANIC ANALYSIS**

2 credits.

Biological Mass Spectrometry: Fundamentals and Applications.

**Requisites:** CHEM 345 524 or consent of instructor

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CHEM 623 – EXPERIMENTAL SPECTROSCOPY**

2-3 credits.

The theory behind current spectroscopic methods employed in chemical analysis with applications in atomic and molecular absorption spectroscopy, infrared and Raman vibrational spectroscopy, fluorescence and light scattering; lecture and laboratory projects.

**Requisites:** CHEM 562 or consent of instructor

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**CHEM 624 – ELECTROCHEMISTRY**

2-3 credits.

Theory of interfacial electron transfer and mass transport processes in electrochemistry, with applications to electroanalysis, electrodeposition and electrochemical separations; lecture and laboratory projects.

**Requisites:** Graduate standing

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CHEM 625 – SEPARATIONS IN CHEMICAL ANALYSIS**

2-3 credits.

Fundamentals of transport processes and the origins of chemical potential differences giving rise to separation. Principles of chromatography, electrophoresis and field flow fractionation. Lecture and laboratory projects.

**Requisites:** 1 sem organic 1 sem phys chem, or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**CHEM/GENETICS 626 – GENOMIC SCIENCE**

2 credits.

This course is designed to bring cutting-edge topics in the genomic sciences into the reach of traditionally "pure" chemistry, biology, engineering, computer science statistics students. It is also designed for enabling biologically-oriented students to deal with the advances in analytical science so that they may incorporate new genomic science concepts into their own scientific repertoires. Intended for graduate students and for undergraduates with extensive research experience.

**Requisites:** Graduate standing**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**CHEM/BMOLCHEM 627 – METHODS AND TECHNOLOGIES FOR PROTEIN CHARACTERIZATION**

2-3 credits.

This course seeks to engage students interested in chemical instrumentation and those who desire to apply proteomic technologies to current biological problems. Understanding the current proteomics landscape, the limitations of these technologies, and their practical applications are among the course learning objectives.

**Requisites:** Graduate standing**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**CHEM 628 – CHEMICAL INSTRUMENTATION: DESIGN AND CONTROL APPLICATIONS**

3 credits.

The design and application of chemical instrumentation; basic principles for monitoring and controlling chemical experiments; optical, electrical and mechanical sensors and transducers of importance to analytical chemical instrumentation; lecture and lab.

**Requisites:** CHEM 524, 621 or consent of instructor**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**CHEM 630 – SELECTED TOPICS IN ANALYTICAL CHEMISTRY**

1-3 credits.

Lectures of a specialized nature in advanced analytical chemistry.

**Requisites:** CHEM 524, 621 or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CHEM 635 – TOPICS IN COMPUTATIONAL CHEMISTRY**

1 credit.

This course is designed to give students a basic understanding of computational chemistry, which can be implemented within students' research. In addition, this course will discuss new techniques and developments in the literature, and specific types of calculations that are relevant to current students' research and needs.

**Requisites:** Graduate standing**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CHEM 636 – TOPICS IN CHEMICAL INSTRUMENTATION: INTRODUCTION TO NMR**

2 credits.

This course will instruct students on the theory and practice of NMR spectroscopy. It is a full semester course, consisting of 15 hours of lecture and 30 hours laboratory instruction. Enrollment will be limited based on avail instrumentation for lab exercises

**Requisites:** Cons inst.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHEM 637 – TOPICS IN CHEMICAL INSTRUMENTATION: ADVANCED METHODS IN NMR**

1-2 credits.

This course will instruct students on advanced methods of NMR spectroscopy. It is offered as a seven week module, consisting of 7 hours of lecture, 14 hours of laboratory instruction, 1 hour final exam. Enrollment will be limited based on avail instrumentation for lab exercises

**Requisites:** Cons inst.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017

**CHEM 638 – TOPICS IN CHEMICAL INSTRUMENTATION: INTRODUCTION TO MASS SPECTROMETRY**

1 credit.

This course will introduce students to the theory and practice of mass spectrometry. It is offered as a 7 week module, consisting of 15 hours of lecture and laboratory instruction. Enrollment will be limited based on available instrumentation for lab exercises

**Requisites:** Cons inst.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CHEM 641 – ADVANCED ORGANIC CHEMISTRY**

3 credits.

Topics in physical organic chemistry.

**Requisites:** CHEM 345 or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CHEM/B M E/MED PHYS 650 – BIOLOGICAL OPTICAL MICROSCOPY**

3 credits.

This course for graduate students will cover several aspects of state of the art biological and biophysical imaging. We will begin with an overview of geometrical optics and optical and fluorescence microscopy, with an emphasis on instrumentation. The bulk of the course will focus on advanced imaging techniques including nonlinear optical processes (multi-photon excitation, second harmonic generation, and stimulated Raman processes) and emerging super-resolution methods. Special emphasis will be given to current imaging literature and experimental design.

**Requisites:** Senior or Graduate standing, and CHEM 104 or 109 or 116 and, PHYSICS 104 or 202 or 208

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**CHEM 652 – CHEMISTRY OF INORGANIC MATERIALS**

3 credits.

Graduate level course on the materials chemistry of inorganic solids. Focuses on the application of chemical concepts to an understanding of properties of solids and how these properties are manifested in practical applications.

**Requisites:** Graduate student standing or CHEM 562 or equivalent

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CHEM 653 – CHEMISTRY OF NANOSCALE MATERIALS**

3 credits.

Introduction to solid state materials chemistry, with an emphasis on contemporary topics in the chemistry of nanomaterials. Incorporates fundamental knowledge of solid-state chemistry and traditional materials chemistry with current nanoscale and nanostructural materials research.

**Requisites:** Graduate student standing or both CHEM 311 and CHEM 561 or equivalent

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CHEM 654 – MATERIALS CHEMISTRY OF POLYMERS**

2-3 credits.

Polymer classification, synthesis, and molecular architecture; solid state structure and characterization; glassy state and glass transition; polymer rheology in solids and gels; transport, dielectric and optical properties.

**Requisites:** CHEM 562 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**CHEM 661 – CHEMICAL AND STATISTICAL THERMODYNAMICS**

3 credits.

Basic chemical thermodynamics with applications to chemical and phase equilibria and the study of solutions; introduction to statistical mechanics and calculation of thermodynamic quantities from molecular models; stability and fluctuations.

**Requisites:** CHEM 561 or 565, CHEM 562; or consent of instructor

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CHEM 664 – PHYSICAL CHEMISTRY OF MACROMOLECULES**

2-3 credits.

Structure, thermodynamics, and dynamics of polymers in solution and in the bulk; theoretical models and experimental methods; polymer characterization.

**Requisites:** CHEM 562 or consent of instructor

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**CHEM/BIOCHEM 665 – BIOPHYSICAL CHEMISTRY**

4 credits.

Equilibrium thermodynamics, chemical kinetics and transport properties, with emphasis on solution behavior and application to noncovalent interactions of biological macromolecules in solution. For graduate students interested in the biological applications of physical chemistry. Stdts must meet prereqs for CHEM 565 have some prev background in phys chem

**Requisites:** Grad st or cons inst.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHEM 668 – BIOPHYSICAL SPECTROSCOPY**

2-3 credits.

Focuses on the underlying principles and applications of spectroscopic and microscopy methods employed to solve biological problems at the atomic and molecular level. Techniques covered in this class include electronic absorption and fluorescence spectroscopy, circular dichroism, light scattering, fluorescence microscopy, multidimensional nuclear magnetic resonance and electron spin resonance. CHEM 562 or equivalent recommended

**Requisites:** CHEM 561 or equivalent.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHEM 675 – INTRODUCTORY QUANTUM CHEMISTRY**

3 credits.

Basic principles of quantum chemistry, exactly solvable problems, angular momentum, approximation methods, applications to electronic structure.

**Requisites:** CHEM 562 or consent of instructor**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHEM 681 – SENIOR HONORS THESIS**

2-4 credits.

An independent and original study done under the direction of a member of the staff, recommended for seniors majoring in chemistry. CHEM 681 and CHEM 682 are taken in consecutive semesters. Students must enroll for a total of exactly 6 credits between the two courses, taking either 3 credits each semester or 2 credits one semester and 4 credits the other.

**Requisites:** Honors candidacy**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CHEM 682 – SENIOR HONORS THESIS**

2-4 credits.

Continuation of 681. Students must enroll for a total of exactly 6 credits between CHEM 681 and 682, taking either 3 credits each semester or 2 credits one semester and 4 credits the other.

**Requisites:** Honors candidacy**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CHEM 691 – SENIOR THESIS**

2-6 credits.

An independent and original study done under the direction of a member of the staff, recommended for seniors majoring in chemistry.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CHEM 692 – SENIOR THESIS**

2-6 credits.

Continuation of 691

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CHEM 699 – DIRECTED STUDY**

1-6 credits.

Graded on a lettered basis; requires cons inst

**Requisites:** Jr or Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CHEM/BIOCHEM 704 – CHEMICAL BIOLOGY**

2 credits.

Chemistry and biology of proteins, nucleic acids and carbohydrates; application of organic chemistry to problems in cell biology, biotechnology, and biomedicine.

**Requisites:** BIOCHEM 501 or equiv, 1 yr org chem cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017



**CHEM 713 – INORGANIC AND ORGANOMETALLIC CHEMISTRY OF THE MAIN GROUP ELEMENTS**

1-3 credits.

A modular course consisting of 1), inorganic and 2), organometallic chemistry of main-group elements and 3), organosilicon chemistry.

**Requisites:** CHEM 511 or equivalent**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHEM 714 – ORGANOMETALLIC CHEMISTRY OF THE TRANSITION ELEMENTS**

2-3 credits.

**Requisites:** CHEM 511 or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHEM 762 – MOLECULAR REACTION DYNAMICS**

2-3 credits.

Microscopic approach to chemical dynamics.

**Requisites:** CHEM 562 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**CHEM 763 – INTRODUCTION TO MOLECULAR SPECTROSCOPY**

2-3 credits.

Quantum mechanics of molecular rotation and vibration; principles of group theory; electronic, vibrational, and magnetic resonance spectroscopy in gas and condensed phases.

**Requisites:** CHEM 675 or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**CHEM/PHM SCI 766 – MOLECULAR RECOGNITION**

2-3 credits.

Origin, nature, classification, and description of intermolecular forces. The hydrophobic effect. Molecular complexes, binding constants, and their measurements. General principles of self-assembly, molecular recognition, complex formation, host design. Supramolecular systems and their dynamics. Micelles, bilayers, vesicles, biological membranes.

**Requisites:** CHEM 561**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CHEM 775 – ELECTRONIC STRUCTURE OF MOLECULES**

2-3 credits.

Applications of quantum mechanics to the electronic structure and properties of molecules.

**Requisites:** CHEM 675 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**CHEM 777 – PHYSICAL CHEMISTRY OF SURFACES**

2-3 credits.

Structure, thermodynamics, kinetics, and reactivity of molecules at the interfaces between gases, liquids and solids, with applications to catalysis, atmospheric chemistry, monolayers, and thin films.

**Requisites:** CHEM 562 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**CHEM 801 – SELECTED TOPICS IN INORGANIC CHEMISTRY**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CHEM 841 – ADVANCED ORGANIC CHEMISTRY**

3 credits.

Synthesis of simple and complex organic compounds.

**Requisites:** CHEM 641**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CHEM 842 – ADVANCED ORGANIC CHEMISTRY**

1-3 credits.

Selected topics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**CHEM 843 – ADVANCED ORGANIC CHEMISTRY**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016

**CHEM 860 – SELECTED TOPICS IN PHYSICAL CHEMISTRY**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CHEM 864 – STATISTICAL MECHANICS**

2-3 credits.

Fundamentals of statistical mechanics; applications to equilibrium and non-equilibrium properties of gases and condensed phases; selected advanced topics.

**Requisites:** CHEM 661 675 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**CHEM/BIOCHEM 872 – SELECTED TOPICS IN MACROMOLECULAR AND BIOPHYSICAL CHEMISTRY**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CHEM 900 – SEMINAR-INORGANIC CHEMISTRY**

0 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CHEM 901 – SEMINAR-TEACHING OF CHEMISTRY**

1 credit.

The role of the teaching assistant in undergraduate chemistry instruction. Effective utilization of instructional aids. Innovations for better teaching.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CHEM 915 – SEMINAR-STRUCTURE AND BONDING IN INORGANIC COMPOUNDS**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**CHEM/BIOCHEM 918 – SINGLE MOLECULE APPROACHES TO BIOLOGY**

1 credit.

A combination of recent literature and original research presentations relating to the use of single molecule techniques in biochemistry including fluorescence microscopy, tethered particle motion, patch-clamping, cryo-electron microscopy, optical trapping, magnetic tweezers, and super resolution microscopy.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CHEM 920 – SEMINAR-ANALYTICAL CHEMISTRY**

0 credits.

Prepared seminar covering diverse advanced topics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CHEM 923 – SEMINAR-SPECTROSCOPY AND SPECTROCHEMICAL ANALYSIS**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CHEM/CBE/E M A/M E 925 – RHEOLOGY RESEARCH SEMINAR**

1 credit.

Exploration of the most recent research literature on viscoelasticity, constitutive equations, non-Newtonian flow systems, fluid metering devices, kinetic theory of macromolecules, and rheoptical phenomena. Periodic reports on recent advances made by research workers in the various rheology groups on the Madison campus.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**CHEM 940 – SEMINAR-ORGANIC CHEMISTRY**

0 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**CHEM 941 – SEMINAR-SYNTHETIC ORGANIC CHEMISTRY**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**CHEM 942 – SEMINAR-PHYSICAL ORGANIC CHEMISTRY**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**CHEM 943 – SEMINAR-BIO-ORGANIC CHEMISTRY**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**CHEM/BIOCHEM 945 – SEMINAR-CHEMICAL BIOLOGY (ADVANCED)**

1 credit.

Recent published research in chemical biology and related areas. Intended for advanced graduate students, and required of all NIH Chemistry-Biology Interface trainees.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CHEM 960 – SEMINAR-PHYSICAL CHEMISTRY**

2 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CHEM 964 – SEMINAR: MOLECULAR DYNAMICS**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CHEM 990 – RESEARCH-ORGANIC**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CHEM 991 – RESEARCH GENERAL**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**CHEM 992 – RESEARCH-PHYSICAL**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHEM 993 – RESEARCH-ANALYTICAL**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHEM 994 – RESEARCH-INORGANIC**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHEM 995 – RESEARCH-MACROMOLECULAR CHEMISTRY**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHEM 996 – RESEARCH-MATERIALS CHEMISTRY**

1-12 credits.

Graduate thesis research in materials chemistry.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CHEM 998 – RESEARCH-CHEMICAL BIOLOGY**

1-12 credits.

Graduate thesis research in Chemical Biology.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## CHICANA/O AND LATINA/O STUDIES (CHICLA)

### CHICLA/ASIAN AM/FOLKLORE 102 – INTRODUCTION TO COMPARATIVE ETHNIC STUDIES

3-4 credits.

This course introduces students to a multicultural history of the United States, focusing on each of the major ethnic groups: European Americans, African Americans, Native Americans, Chicano/as, Latino/as and Asian Americans.

**Requisites:** Fr and So only; others by cons inst

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### CHICLA 201 – INTRODUCTION TO CHICANA/O AND LATINA/O STUDIES

3 credits.

Introduction to the interdisciplinary study of Chicanas/os in the United States. Students will become acquainted with recent scholarly literature, paradigms, theories, and debates within Chicana/o studies pertaining to the historical, economic, cultural, and sociopolitical dimensions of the Chicana/o experience in the United States.

**Requisites:** Open to Fr So only

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### CHICLA 210 – CHICANA/O AND LATINA/O CULTURAL STUDIES

3 credits.

Introduction to the cultural worlds of Chicana/os and Latina/os in the U.S. Examines how diverse peoples came to understand themselves as members of a racial, ethnic, and cultural community by exploring the production of music, art, theater, film, television, and literature.

**Requisites:** Open to Fr

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2012

### CHICLA 230 – TOPICS IN CHICANA/O AND LATINA/O STUDIES

3-6 credits.

Topics vary each semester, but may include history, literature, media, political science, culture, social work, etc., as they relate to Chicana/os and Latina/os in the United States.

**Requisites:** Open to Fr

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2013

### CHICLA/POLI SCI 231 – POLITICS IN MULTI-CULTURAL SOCIETIES

3-4 credits.

Race, ethnicity, and religion as political factors; cultural pluralism, politics, and policy in the United States and selected other multi-cultural politics.

**Requisites:** Freshmen or sophomore standing only

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### CHICLA/GEN&WS/HISTORY 245 – CHICANA AND LATINA HISTORY

3 credits.

Introduces the cultural, economic, social, and political history of Chicanas and Latinas in the U.S. and focuses on four major themes: contact between different ethnic/racial groups; ideas of nation and nationalism; constructions of identity; and struggles for social justice.

**Requisites:** Open to Fr

**Course Designation:** Gen Ed - Communication Part B

Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

### CHICLA 299 – DIRECTED STUDY

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2012

**CHICLA 301 – CHICANA/O AND LATINA/O HISTORY**

3 credits.

Examines the history of the making of a people from pre-hispanic time to the present. Examines how people of Mexican and Latin American descent in the United States have come to think of themselves as constituting a collectivity by examining the social, cultural, and political worlds of Chicana/os and Latina/os.

**Requisites:** So st**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2010**CHICLA/POLI SCI 302 – MEXICAN-AMERICAN POLITICS**

3-4 credits.

This class examines the major problems and issues in Mexican-American politics since World War II. An emphasis will be placed on the ways in which race, class and culture have structured politics for the Mexican origin people. Not open to students with credit for POLI SCI 464 prior to fall 2017

**Requisites:** Sophomore standing.**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**CHICLA/CURRIC 321 – CHICANO/LATINO EDUCATIONAL JUSTICE**

3 credits.

Addresses the ways Chican@s/Latin@s in contemporary U.S. society have engaged in social, cultural, political, and ideological struggles for educational justice. The course begins with a broad overview of educational issues and examines major social movements, legal cases, and local and national efforts that have established important precedents. Focus on different enactments of resistance, struggle, resilience, self-determination, and educational justice and focus on how these precedents and enactments pertain to teaching, learning, and curriculum practices that reflect key tenets of educational justice for Chican@/Latin@ students.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHICLA 330 – TOPICS IN CHICANO/A STUDIES**

3-4 credits.

An examination of specific themes in Chicano/a life, ways and culture. Topics may include border culture, Chicano/a ethnicity and identity, and Mexican immigration to the United States.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CHICLA/GEN&WS 332 – LATINAS: SELF IDENTITY AND SOCIAL CHANGE**

3 credits.

Explores the multiracial and multicultural reality of Latina societies by becoming familiar with the history and cultures of Chicana, Cuban-American, and Puerto Rican women. Interdisciplinary readings in law, journalism, public policy, history, and self-reflective literature.

**Requisites:** So st**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**CHICLA/COM ARTS 347 – RACE, ETHNICITY, AND MEDIA**

3 credits.

Introduction to the changing images of race and ethnicity in U.S. entertainment media and popular culture. Surveys history, key concepts and contemporary debates regarding mediated representation of ethnic minorities. Critical and cultural studies approaches are emphasized.

**Requisites:** Open to Fr**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017



**CHICLA/HISTORY/LACIS/POLI SCI 355 – LABOR IN THE AMERICAS: US & MEXICO IN COMPARATIVE & HISTORICAL PERSPECTIVE**

3 credits.

Provides a critical examination of the history of labor and working people in the Americas, from the colonial era to the present. It focuses on the experience of the United States and Mexico, offering a comparative perspective on their distinct but also shared (and increasingly linked) histories. The seminar proceeds chronologically, highlighting major episodes in the evolution of labor systems in the two countries, beginning with the colonial labor systems implemented by the Spanish and British empires following the European conquest of the Western Hemisphere. Among other topics, we will examine the pivotal role of slavery and other forms of forced labor, the impact of the industrial revolution, the emergence and expansion of corporate capitalism and the labor unrest it provoked in the post-civil war U.S., the role of labor in the Mexican Revolution and its aftermath, the impact of the Great Depression and labor incorporation on the post-WWII social and political order of both countries, the breakdown of that order and the move to neo-liberalism in the 1970s and 1980s, and the emergence of an increasingly integrated North American production system and its consequences for labor and working people on both sides of the US-Mexico border.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**CHICLA/ENGL 368 – CHICANA/O AND LATINA/O LITERATURES**

3 credits.

Course explores historical, political, and aesthetic roots and directions of Latina/o and Chicana/o short stories, novels, poetry, music, plays, films, and essays. Intermediate/advanced study for English majors and/or CLS certificate program students. Students who have taken English 357 prior to fall 2014 may not enroll in this course.

**Requisites:** Junior standing 6 credits literature, or consent of instructor**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2011**CHICLA/COM ARTS 419 – LATINO/AS AND MEDIA**

3 credits.

Critical and historical survey of the participation and representation of Latino/as in U.S. film, television, and popular culture, with a primary focus on Hispanic representation in Hollywood-produced imagery. The counter-images of Latino and Latina media producers also will be explored.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**CHICLA/HISTORY/POLI SCI 422 – LATINO HISTORY AND POLITICS**

3 credits.

Students will examine the historical, social, political, economic, and cultural experiences and conditions of Latinos, one of the largest US racial/ethnic minority groups. Course focus is on people who trace their origins to Mexico, the Caribbean, and countries of Latin America.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**CHICLA/GEN&WS 425 – CHICANA AND LATINA FEMINISMS, ARTS, AND MEDIA**

3 credits.

An introduction to Chicana and Latina history and feminist activism, writing, and creative expression. Surveys Chicana/Latina participation and representation in society, the arts, the media, and popular culture.

**Requisites:** Chic/Std 101 or women's studies intro crse or Jr st**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2008**CHICLA/HISTORY 435 – COLONY, NATION, AND MINORITY: THE PUERTO RICANS' WORLD**

3 credits.

A historical introduction to the Puerto Rican experience, from island to mainland. Varieties of colonial rule, social institutions, cultural processes, and ethnic and national identity. Migration to the U.S. and social dynamics of stateside communities.

**Requisites:** Junior standing or higher**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2013**CHICLA/SPANISH 459 – MEXICO IN THE CHICANO AND CHICANA LITERARY IMAGINATION**

3 credits.

Focuses on analyzing the representations of Mexico in the literary works of Chicano and Chicana writers through out the twentieth century, and the function such representations play in their construction of identity, subjectivity, and community. This course will be offered in Spanish.

**Requisites:** SPANISH 223 and SPANISH 224**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2008



**CHICLA/HISTORY 461 – THE AMERICAN WEST TO 1850**

3-4 credits.

North American frontiers through the period of the Mexican War. Major Indian cultures of North America; the frontiers and differing imperial systems of Spain, France, and England; and the westward movement of the United States through 1850.

**Requisites:** So st**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHICLA/HISTORY 462 – THE AMERICAN WEST SINCE 1850**

3-4 credits.

The West as frontier and region since 1850. Indian-white and other interethnic relations; federal policies; the development of a resource-intensive economy, its environmental effects, and political conflicts accompanying it; and the ideology of the frontier in American culture.

**Requisites:** So st**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**CHICLA/SPANISH 467 – US LATINO LITERATURE**

3 credits.

Study of the literature of Latinos and Latinas in the United States. It will concentrate on analyzing the representation of their experience in this country, as well as the linguistic, cultural and formal singularity of their literature. This course will trace the development of Hispanic/Latino literature, its trends, the incorporation of newer Latino and Latina migrant communities in the US, question how it is defined, and address various issues concerning its poetics and present state. It will explore the intersectionality of ethnicity, class, gender, migration, sexuality, and literary forms.

**Requisites:** SPANISH 223 and SPANISH 224**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CHICLA/HISTORY 468 – POPULAR CULTURE IN THE MULTI-RACIAL UNITED STATES**

3-4 credits.

Origins and development of widely distributed popular culture in the nineteenth and twentieth centuries with emphasis on race and racialization. Exploration of production/performance and consumption of minstrel shows, wild west shows, film, radio, television, music in topical units.

**Requisites:** So St**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2009**CHICLA/SPANISH 469 – TOPICS IN HISPANIC CULTURES IN THE U.S.**

3 credits.

Focuses on the cultural evolution of Chicanos, Puerto Rican or Cuban-Americans in relation to their countries of origin. Topics vary.

**Requisites:** SPANISH 223 224 or (SPANISH 361, 363, or 468)**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CHICLA/SOC 470 – SOCIODEMOGRAPHIC ANALYSIS OF MEXICAN MIGRATION**

3 credits.

Introduces students to social and demographic analysis and explanations of the historical and present day causes and consequences of migration of the largest immigrant group to the United States in the 20th century.

**Requisites:** Chic/Std 201, 215, 220, 234, 210, or 205**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**CHICLA 510 – INTEGRATIVE SEMINAR IN CHICANA/O STUDIES**

3 credits.

This integrative capstone course examines the history of Chicana/o studies and contemporary theoretical debates in the field. Among the areas considered are the following: the project of interdisciplinarity; difference, identity, community; race and class formations; gender and sexuality; and critical praxis. Open to graduate students.

**Requisites:** 9 cr of Chicana/o studies, Jr or Grad st**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2014

**CHICLA 519 – TRANSNATIONAL AND COMPARATIVE WORKING-CLASS CULTURES**

3-4 credits.

Transnational, comparative examination of historical meanings of work and formation of working-class cultures. Focuses on relations of power and ideas about race, class, ethnicity, gender, and sexuality and how they shaped working-class culture in U.S., Latin America, Europe, and Asia.

**Requisites:** Cons inst or Jr st and one of: History 405, 406, 407, 408, 430, Hist/Chicla 436

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**CHICLA/COUN PSY 525 – DIMENSIONS OF LATIN@ MENTAL HEALTH SERVICES**

3 credits.

This service-learning course provides training for students who aspire to one of the helping, health, or mental health professions and who currently work or who envision themselves working with Latin@ populations.

The course provides important frameworks for working with Latin@s, including cultural, spiritual, linguistic and historical features relevant to this population and begin to apply their knowledge in service learning placements.

**Requisites:** Junior standing or 6 credits of CHICLA

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CHICLA 530 – ADVANCED TOPICS IN CHICANA/O AND LATINA/O STUDIES**

1-4 credits.

Topics vary each semester, but may include history, literature, media, political science, culture, social work, etc., as they relate to Chicana/os and Latina/os in the United States.

**Requisites:** Cons inst or Jr st 3 cr in Chicana/o studies

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CHICLA/SOC WORK 657 – UNDERSTANDING LATINO FAMILIES AND COMMUNITIES**

3 credits.

Examines U.S. Latino families and communities, including social and economic conditions, cultural values, and issues of identity, race, gender, discrimination, acculturation and language. A service-learning course, students gain knowledge of and direct experience with social work issues in Latino communities.

**Requisites:** Jr st

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**CHICLA 699 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

## CIVIL SOCIETY AND COMMUNITY STUDIES (CSCS)

**CSCS 125 – COMMUNITY AND SOCIAL CHANGE**

3 credits.

This course examines contemporary issues with an emphasis on the role that individuals and communities play in achieving positive social change. Through active learning, students will develop the mindsets and communication skills necessary to work in diverse community contexts. Specific themes may shift based on current events, but often include education reform, racial justice, health equity, alternative economies, food systems, and sustainability.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CSCS 130 – COMMUNITY NEWSWRITING**

3 credits.

Newswriting of interest to individuals, families, and communities.

**Requisites:** Sophomore standing

**Course Designation:** Gen Ed - Communication Part B

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CSCS 254 – COMMUNITY & NONPROFIT LEADERSHIP SYMPOSIUM**

1 credit.

Provides detailed examination of careers in Human Ecology and the fields of community and nonprofit leadership. High-level leaders from leading community organizations, nonprofits, community health institutions, family support agencies, NGO's, and public-sector entities will present as guest speakers and panel members.

**Requisites:** None**Repeatable for Credit:** Yes, for 1 number of completions**CSCS 299 – INDEPENDENT STUDY**

1-3 credits.

Directed study projects for freshmen and sophomores as arranged with a faculty member.

**Requisites:** Consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CSCS 300 – NONPROFIT SECTOR: OVERVIEW AND FOUNDATIONS**

3 credits.

Provide learners with the concepts and tools to analyze the broad environment in which nonprofits operate and assess the impact of this environment at the community and individual organizational level.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**CSCS 301 – COORDINATIVE INTERNSHIP/COOPERATIVE EDUCATION**

1-6 credits.

Enables students with supervised internships to earn academic credit while engaged in a professional experience in community and nonprofit leadership related fields. Course is intended for juniors and seniors in Community and Nonprofit Leadership.

**Requisites:** Consent of instructor**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**CSCS 335 – COMMUNICATING WITH KEY AUDIENCES**

3 credits.

Comprehensive communication strategies for individuals, families, and communities.

**Requisites:** Sophomore standing**Repeatable for Credit:** No**Last Taught:** Fall 2017**CSCS 345 – STRATEGIC PLANNING FOR NONPROFIT ORGANIZATIONS**

3 credits.

Study strategic planning within unique dynamics of nonprofit sector. Attention to purpose, organizational preparation, planning process and outcome, plan implementation and roles of leaders and stakeholders throughout.

**Requisites:** Junior standing**Repeatable for Credit:** No**Last Taught:** Spring 2017**CSCS 375 – SPECIAL TOPICS**

1-4 credits.

Specialized subject matter of current interest to undergraduate students.

**Requisites:** Prerequisites vary by topic**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CSCS 400 – PHILANTHROPY AND CIVIC ENGAGEMENT**

3 credits.

Explores philanthropy and civic engagement through giving time, money and effort to a public purpose. Students will learn the philanthropic process including creating a giving plan, as well as exploring strategic and creative ways to give that promote civil society and engagement. Students will develop plans for assessment and evaluation of philanthropic giving.

**Requisites:** Sophomore standing**Repeatable for Credit:** No**CSCS/CURRIC 427 – METHODS OF TEACHING FAMILY AND CONSUMER EDUCATION**

3 credits.

Theory and principles of teaching and learning in family and consumer education.

**Requisites:** Junior standing**Repeatable for Credit:** No**Last Taught:** Spring 2016**CSCS/CURRIC 428 – PROGRAM PLANNING IN FAMILY AND CONSUMER EDUCATION**

3 credits.

Theory and processes of program planning for formal and informal educational settings; relation of vocational education to secondary, adult, and continuing education programs.

**Requisites:** Junior standing**Repeatable for Credit:** No**Last Taught:** Fall 2017**CSCS 455 – ENTREPRENEURIALISM AND SOCIETY**

3 credits.

Explores entrepreneurialism in nonprofits, business, government, and arts and humanities contexts. With a broad approach of ideas, readings, and lectures, students will understand the ever-changing role that entrepreneurs play and contribute to society.

**Requisites:** Junior standing**Repeatable for Credit:** No**Last Taught:** Summer 2014**CSCS 460 – CIVIL SOCIETY AND COMMUNITY LEADERSHIP**

3 credits.

Provides opportunities for learning about some of the "nuts and bolts" of nonprofit organizations. Through studying high-impact organizations, interacting with local experts, and through an independent investigation of the work of a local nonprofit organization, students have opportunities for developing uniquely tailored understandings and skills for nonprofit leadership.

**Requisites:** Junior standing**Repeatable for Credit:** No**Last Taught:** Fall 2017

**CSCS 501 – SPECIAL TOPICS**

1-3 credits.

Specialized subject matter of current interest to undergraduate and graduate students.

**Requisites:** Prerequisites vary by topic

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CSCS 560 – COMMUNITY LEADERSHIP**

3 credits.

Explores community building and community action strategies for renewing fragmented connections in today's localities. Builds knowledge and skills for participation and leadership at team and multi-stakeholder community levels in the context of nonprofit organization work. Requires 5 hours of service learning.

**Requisites:** Junior standing and CSCS 300

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CSCS 570 – COMMUNITY BASED RESEARCH AND EVALUATION**

3 credits.

Theoretical, critical, and analytical understanding and application of the conscious and systematic use of data, inquiry and analysis for community, organization and program diagnosis, intervention and evaluation in various community-based and nonprofit organizations.

**Requisites:** Junior standing, satisfied Quantitative Reasoning (QR) A requirement, and CSCS 300

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CSCS 600 – COMMUNITY ISSUES AND ACTION CAPSTONE**

3 credits.

Designed to demonstrate your accumulated training in community and non-profit leadership in a semester long project done in collaboration with a community partner. The course asks how we can better conceptualize social justice and community issues from a human ecology perspective, while also learning from our own practice and experience working with nonprofit and community based organizations. This course provides students with both a critical learning experience that combines both classroom and community based learning. The course requires 28 hours of fieldwork in community settings, in addition to class sessions. It is expected that students will complete the ethnic studies requirement prior to enrolling in this course.

**Requisites:** Senior standing and CSCS 345

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CSCS 601 – INTERNSHIP**

1-6 credits.

Enables students with supervised internships to earn academic credit while engaged in a professional experience in community and nonprofit leadership related fields. Course intended for juniors and seniors in Community and Nonprofit Leadership.

**Requisites:** Consent of instructor

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CSCS 675 – GENERAL TOPICS**

2-3 credits.

Specialized subject matter of current interest to graduate students.

**Requisites:** Prerequisites vary by topic

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CSCS 680 – SENIOR HONORS THESIS**

2-4 credits.

Individual study for seniors completing theses for Human Ecology honors degrees as arranged with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2014

**CSCS 690 – SENIOR THESIS**

2 credits.

Individual study for seniors completing theses as arranged with a faculty member.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**CSCS 699 – INDEPENDENT STUDY**

1-4 credits.

Directed study projects for juniors and seniors as arranged with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CSCS 801 – SPECIAL TOPICS IN CIVIL SOCIETY AND COMMUNITY RESEARCH**

1-3 credits.

Special topics in Civil Society and Community Research at the Master's and Doctoral levels. Subject matter varies.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CSCS 811 – SEMINAR: RESEARCH DESIGN AND METHODOLOGY**

1-3 credits.

For students actively involved in designing, analyzing, and writing up research projects or theses.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**CSCS 990 – RESEARCH AND THESIS**

1-12 credits.

Independent research and writing for graduate students under the supervision of a faculty member.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CSCS 999 – INDEPENDENT STUDY**

1-3 credits.

Directed study projects for graduate students as arranged with a faculty member.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## CIVIL AND ENVIRONMENTAL ENGINEERING (CIV ENGR)

**CIV ENGR 1 – COOPERATIVE EDUCATION PROGRAM**

1 credit.

Work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career.

**Requisites:** So st**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CIV ENGR 251 – ENGINEERING SPATIAL MEASUREMENTS**

2 credits.

Introduction to the fundamentals of engineering measurements; units of measurement; significant figures; errors in measurement; measuring devices and their calibration; measurements of distances, angles, elevations and other engineering quantities; construction measurements; reference coordinate systems for point positioning, datums; mapping.

**Requisites:** MATH 221, ME 170 or consent of instructor**Repeatable for Credit:** No**Last Taught:** Spring 2006**CIV ENGR 290 – CONSTRUCTION SYSTEMS**

3 credits.

Course focuses upon the building construction industry. Buildings include many engineered systems, such as foundations, structural, and exterior cladding. Course addresses construction methods and techniques for sitework, excavation, paving, cast-in-place concrete, precast concrete, masonry, structural steel, and moisture protection. Course uses case examples of individual systems.

**Requisites:** So st**Repeatable for Credit:** No**Last Taught:** Spring 2017**CIV ENGR/G L E 291 – PROBLEM SOLVING USING COMPUTER TOOLS**

3 credits.

Introduction to engineering computations with emphasis on computer tools and computer based measurement, data collection, and processing. Tools will include computer aided drafting, spreadsheets, other engineering computation tools, and hardware and software for laboratory and spatial measurements.

**Requisites:** EMA 202 or 304**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR 299 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**CIV ENGR 310 – FLUID MECHANICS**

3 credits.

Fluid statics and dynamics, dimensional analysis, flow of an ideal fluid, flow of a real fluid—including laminar and turbulent flow, applications to engineering problems.

**Requisites:** MATH 234 EMA 202 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR 311 – HYDROSCIENCE**

3 credits.

Introduction to the water cycle, its relationship to the environment and human attempts to conserve, control, and utilize water judiciously. Fundamentals of hydrology, hydraulics, coastal engineering and water resources engineering.

**Requisites:** Civ Engr 310**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**CIV ENGR 320 – ENVIRONMENTAL ENGINEERING**

3 credits.

Fundamental sanitary aspects of environmental engineering. Role of the engineer in the control of the environment; water supply and wastewater problems; solid waste disposal; air pollution; and administration in environmental engineering.

**Requisites:** 1 year college chem**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR 322 – ENVIRONMENTAL ENGINEERING PROCESSES**

3 credits.

Combination of theory and laboratory practice to study basic unit operations and processes in environmental engineering. Emphasis on water and wastewater treatment processes, such as coagulation/flocculation, chemical precipitation, filtration, adsorption, activated sludge, anaerobic digestion, and substrate utilization kinetics.

**Requisites:** Civ Engr 320**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR/G L E 330 – SOIL MECHANICS**

4 credits.

Basic principles of soil mechanics and fundamentals of application in engineering practice; soil composition and texture; classification; permeability and seepage; consolidation; settlement; shear strength; lateral earth pressures; fundamentals of retaining structures, shallow and deep foundations, slope stability; sub-surface exploration; lab.

**Requisites:** EMA 303 or 304 or con reg**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR 340 – STRUCTURAL ANALYSIS I**

4 credits.

Analysis of statically determinate and indeterminate beams, trusses, and rigid frames; deflections by virtual-work, moment-area; influence lines; force methods; structural design loads, introduction to structural design, approximate methods.

**Requisites:** EMA 303 Mech Engr 307 or con reg**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR 370 – TRANSPORTATION ENGINEERING**

3 credits.

Characteristics of transportation supply and demand; measuring and estimating demand; social and environmental impacts; planning of transportation systems; characteristics of transportation modes; interaction between modes; mode interfaces; transportation technology; economics; public policy, implementation and management.

**Requisites:** STAT 311 or STAT 324**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR/BSE/SOIL SCI 372 – ON-SITE WASTE WATER TREATMENT AND DISPERSAL**

2 credits.

On-site treatment and dispersal of waste water from homes, commercial sources and small communities. Sources, pretreatment units, nutrient removal units, constructed wetlands, surface and soil dispersal systems, recycle and reuse systems, regulations, alternative collection systems.

**Requisites:** CHEM 103**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR/ENVIR ST/GEOG 377 – AN INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS**

4 credits.

Design, implementation and use of automated procedures for storage, analysis and display of spatial information. Covers data bases, information manipulation and display techniques, software systems and management issues. Case studies. Meets with Civil Environmental Engineering 357.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR 392 – BUILDING INFORMATION MODELING (BIM)**

3 credits.

Provides students with an introduction to the use of Building Information Modeling (BIM) technology in the construction industry. The course allows students to gain experience in using computer tools such as the Autodesk Revit Family to model building designs.

**Requisites:** M E 160 or M E 170**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017



**CIV ENGR/E M A 395 – MATERIALS FOR CONSTRUCTED FACILITIES**

3 credits.

Properties and tests of materials used in the initial construction or repair of facilities (including buildings, transportation systems, utility systems, and reinforced earth). Introduction to laboratory and field measurement techniques to assess material performance capabilities. Technical report preparation.

**Requisites:** EMA 303 307**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR 410 – HYDRAULIC ENGINEERING**

3 credits.

Engineering approaches to measurement, control and conveyance of water and wastewater flows, emphasizing analysis, design, characteristics and selection of: measurement devices, distribution and collection pipe systems, and pumps and turbines with consideration of plant, quality, economic, reliability, and security aspects.

**Requisites:** Civ Engr 310 311 or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CIV ENGR 411 – OPEN CHANNEL HYDRAULICS**

3 credits.

Analysis and characteristics of flow in open channels (natural and artificial); channel design considerations including uniform flow (rivers, sewers), flow measuring devices (weirs, flumes), gradually varied flow (backwater and other flow profiles, flood routing), rapidly varied flow (hydraulic jump, spillways), and channel design problems (geometric considerations, scour, channel stabilization, sediment transport).

**Requisites:** Civ Engr 311**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**CIV ENGR 412 – GROUNDWATER HYDRAULICS**

3 credits.

Engineering fundamentals of groundwater flow. Mass and momentum conservation, diffusion, and dispersion. Applications to wells, recharge, plumes, and convective transport. Physical models and elementary numerical methods, including flow nets. Some laboratory work.

**Requisites:** None**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CIV ENGR 414 – HYDROLOGIC DESIGN**

3 credits.

An introduction to the design of engineering structures which control and/or utilize runoff, emphasizing the sizing of structures to meet hydrologic uncertainty. Applies principles and techniques from several disciplines, including hydrology, hydraulics, probability and statistics. Specific techniques include flood frequency analysis; risk analysis; design storm and historic storm techniques; rainfall-runoff modeling.

**Requisites:** Civ Engr 315 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2016**CIV ENGR 415 – HYDROLOGY**

3 credits.

Water cycle as related to air mass properties and movement, precipitation, evaporation, snowmelt, infiltration, streamflow, floods, and groundwater. Statistical hydrology, and hydrologic simulations—including runoff prediction, streamflow and reservoir routing, impoundment operation studies, and urban hydrology.

**Requisites:** (CIV ENGR/G L E/CIV ENGR 291 and CIV ENGR 311) or graduate standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR 416 – WATER RESOURCES SYSTEMS ANALYSIS**

3 credits.

Water supply and demand are increasingly stressed by climate, population, land-use, policy, etc. This course presents a variety of systems analysis techniques for water resources planning and management. Deterministic and stochastic optimization and simulation models will be developed and applied. Problems addressed include water supply, water quality, and river basin development.

**Requisites:** Civ Engr 311 or consent of instructor**Repeatable for Credit:** No**Last Taught:** Spring 2017**CIV ENGR 421 – ENVIRONMENTAL SUSTAINABILITY ENGINEERING**

3 credits.

This course utilizes the three paradigms of sustainability (environmental, social, and economic) in an engineering setting, in order to understand how to engineer for a sustainable future. The course will cover topics such as design for the environment, green chemistry, pollution prevention, total cost accounting, life cycle assessment, and industrial ecology. It will involve a community based learning term project, where the students will work in groups to address the sustainability implications of a project for a community partner.

**Requisites:** (MATH 217, 221, or 275) and CHEM 104 or 109**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**CIV ENGR 422 – ELEMENTS OF PUBLIC HEALTH ENGINEERING**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**CIV ENGR 423 – AIR POLLUTION EFFECTS, MEASUREMENT AND CONTROL**

3 credits.

The influence of man-caused pollution on the atmosphere, globally and locally. Evaluation of human health, economic, and aesthetic effects of air pollution. Techniques for measurement of atmosphere pollutant concentrations and determination of local and regional air quality. Detailed presentation of air pollution sources and methods for their control. The role of local, state and federal government in air pollution control.

**Requisites:** Senior standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CIV ENGR 424 – ENVIRONMENTAL ENGINEERING LABORATORY**

2 credits.

Basic chemistry and chemical calculations applied to environmental engineering, lab methods and interpretation of results for chemical and biological analyses of water and wastewater.

**Requisites:** CHEM 103 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**CIV ENGR 426 – DESIGN OF WASTEWATER TREATMENT PLANTS**

3 credits.

Unit operations in wastewater treatment; physical, chemical, and biological processes for treatment of wastewater; sludge treatment and disposal; design of a wastewater treatment plant; site visits to wastewater treatment plants.

**Requisites:** Civ Engr 310 or 316, Civ Engr 320, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR 427 – SOLID AND HAZARDOUS WASTES ENGINEERING**

3 credits.

Basic concepts in designing, evaluating, and operating solid wastes storage, collection, and disposal systems; waste reduction, resource recovery, incineration and land disposal methods; hazardous wastes engineering; legal, political, and administrative considerations.

**Requisites:** Civ Engr 310 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR 428 – WATER TREATMENT PLANT DESIGN**

3 credits.

Preliminary studies and design of water treatment processes and subordinate plant facilities; project control of design project; unit operations in water treatment; groundwater treatment; preliminary cost estimates; introduction of computer-aided design concept; site visits to water treatment plants.

**Requisites:** Civ Engr 310, 320**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CIV ENGR 429 – ENVIRONMENTAL SYSTEMS OPTIMIZATION**

3 credits.

Design and analysis of complex environmental systems to capture policy trade-off in managing water, land, air, and energy resources. Illustration of models that describe decision variables and constraints to capture the full range of alternative policy choices. Heuristic and formal solution procedures to select best project alternatives.

**Requisites:** Introductory calculus**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**CIV ENGR 440 – STRUCTURAL ANALYSIS II**

3 credits.

Analysis of structures by displacement methods with computer solutions. Slope deflection and moment distribution methods. Derivation of stiffness matrices for two-dimensional frames. Introduction to commercial structural analysis software. Shear deformations.

**Requisites:** Civ Engr 340**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CIV ENGR 442 – WOOD STRUCTURES I**

3 credits.

Properties of wood, basic concepts of structural design, design of wood structural members by LRFD including beams, columns and connections. Sawn, glued-laminated, sheathing and composite wood construction products. Concrete formwork.

**Requisites:** Civ Engr 340**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016

**CIV ENGR/ENVIR ST/G L E/GEOSCI 444 – PRACTICAL APPLICATIONS OF GPS SURVEYING**

2 credits.

Global positioning system surveying for field applications. Signals. Coordinate systems. Datums. Cartographic projections. Satellite orbits. Choosing hardware. Strategies for data collection and analysis. Assessing uncertainty. Geocoding satellite images. Integrating data with Geographic Information Systems. Emerging technologies.

**Requisites:** MATH 210, 211, 221 or equiv or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**CIV ENGR 445 – STEEL STRUCTURES I**

3 credits.

Design loads, codes, specifications and standards; philosophies of design; load and resistance factor design (LRFD); allowable stress design (ASD); properties and types of structural steel; residual stresses; behavior and LRFD design criteria for tension members, compression; laterally braced and unbraced beams; essentials of bolted and welded connections.

**Requisites:** Civ Engr 340**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR 447 – CONCRETE STRUCTURES I**

3 credits.

Behavior of reinforced concrete structural elements; concepts of design and proportioning sections for strength and serviceability; background of specification requirements; strength design applied to beams, columns, and members under combined axial load and bending; continuous beams.

**Requisites:** Civ Engr 340**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CIV ENGR/I SY E/N E 460 – UNCERTAINTY ANALYSIS FOR ENGINEERS**

3 credits.

This course introduces undergraduates to approaches for quantifying uncertainty in engineering analyses. Both analytical and computational methods are demonstrated.

**Requisites:** Statistics 311, MATH/STAT 431, or consent of instructor**Repeatable for Credit:** No**CIV ENGR 489 – HONORS IN RESEARCH**

1-3 credits.

Undergrad honors research projects supervised by faculty members. Not available for graduate credit.

**Requisites:** Consent of instructor**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2010**CIV ENGR/BSE 491 – LEGAL ASPECTS OF ENGINEERING**

3 credits.

Legal principles and institutions germane to engineering practice; formation and performance of engineer-client and owner-contractor relationships; preparation of technical specifications; surety bonds and insurance; construction liens; contract administration; construction contract remedies; intellectual property of engineers; engineers' obligations to society and their fellow engineers.

**Requisites:** Sr st or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR 492 – INTEGRATED PROJECT ESTIMATING AND SCHEDULING**

3 credits.

Principles of estimating and scheduling for the construction industry, engineer's preliminary and final estimates' quantity take offs and cost and duration determinations for major items related to a construction project; use manual and computer techniques.

**Requisites:** Jr st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CIV ENGR 494 – CIVIL AND ENVIRONMENTAL ENGINEERING DECISION MAKING**

3 credits.

Planning, designing, and managing civil engineering systems. Fundamentals of the systems approach; marginal analysis; optimization techniques; decision analysis; economic analysis; cost-effectiveness analysis. Case study applications.

**Requisites:** MATH 221 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CIV ENGR 496 – ELECTRICAL SYSTEMS FOR CONSTRUCTION**

3 credits.

Basic electricity, utility systems, standards and codes, electrical construction materials, branch circuit design, motor branch circuit design, feeder and service design, estimating and management concepts in electrical contracting, grounding, lighting, telecommunications.

**Requisites:** PHYSICS 202**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017

**CIV ENGR 497 – MECHANICAL SYSTEMS FOR CONSTRUCTION**

3 credits.

Introduction to building mechanical systems. Plumbing, heating, ventilation, air conditioning, fire protection, automation/controls and process systems. Introduction to mechanical systems design and cost estimating. Mechanical system management.

**Requisites:** PHYSICS 202**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR 498 – CONSTRUCTION PROJECT MANAGEMENT**

3 credits.

Characteristics of Construction Industry; project organizations; the design and construction process; labor, material, and equipment utilization; cost estimation; construction pricing and contracting; construction planning; cost control, monitoring accounting; and management systems construction.

**Requisites:** Junior standing or consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CIV ENGR 500 – WATER CHEMISTRY**

3 credits.

Elements of fresh and marine water chemistry; acid-base, precipitation, complexation, oxidation-reduction, adsorption, and biochemical reactions in natural waters and water treatment processes.

**Requisites:** CHEM 103, 104, 221 or equivalent or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR 501 – WATER ANALYSIS-INTERMEDIATE**

3 credits.

Principles and applications of chemical and instrumental methods for the chemical analysis of water.

**Requisites:** CHEM 103**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CIV ENGR 502 – ENVIRONMENTAL ORGANIC CHEMISTRY**

3 credits.

Environmental behavior of anthropogenic organic compounds. Physical-chemical properties and compound specific reactivities. Environmental processes controlling transport and fate; air-water exchange, sorption, chemical and photochemical reactions and transformations. Environmental fate modeling. For graduate students in environmental science and engineering.

**Requisites:** Civ Engr 500, CHEM 343 or equiv, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2011**CIV ENGR./E M A/M E 508. – COMPOSITE MATERIALS**

3 credits.

Physical properties and mechanical behavior of polymer, metal, ceramic, cementitious, cellulosic and biological composite systems; micro- and macro-mechanics; lamination and strength analyses; static and transient loading; fabrication; recycling; design; analytical-experimental correlation; applications.

**Requisites:** M E 444 or M E/EMA 570 or EMA 506 or graduate standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**CIV ENGR 514 – COASTAL ENGINEERING**

2-3 credits.

The effect of natural forces associated with storms, hurricanes, and water-level variations on the coastal zone, and efforts made to combat these forces. Wave and storm-surge prediction, the change of waves as they approach shore, and wave forces on the shore; shore erosion and littoral drift; nearshore pollution in lakes and oceans; harbor, breakwater, and revetment design.

**Requisites:** Civ Engr 311 or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR 515 – HYDROCLIMATOLOGY FOR WATER RESOURCES MANAGEMENT**

3 credits.

Students will be introduced to various strategies for integrating climate science into water resources, specifically addressing climatic influences on hydrologic variables, the prospects for prediction, and the implications on water management and development. Students will consider both space and time variability of hydrological processes in the context of sub-seasonal, seasonal, and climate change time-scales. The course format will include lectures, discussion, student presentations, and role-playing.

**Requisites:** CIV ENGR 315 and STAT 224**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No

**CIV ENGR 522 – HAZARDOUS WASTE MANAGEMENT**

3 credits.

Environmental regulations, remediation site characterization, contaminant characterization, detailed engineering and management considerations related to the design and operation of hazardous waste remediation systems involving water pollution, air pollution, solid waste, and groundwater pollution.

**Requisites:** Civ Engr 320 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CIV ENGR/G L E 530 – SEEPAGE AND SLOPES**

3 credits.

Practical aspects of seepage effects and ground water flow. Stability of natural and man-made slopes under various loading conditions. Design and construction of earth dams and embankments. Flow net and its use; wells; filters; total and effective stress methods of slope analysis; selection of pertinent soil parameters.

**Requisites:** Civ Engr 330**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR/G L E 531 – RETAINING STRUCTURES**

3 credits.

Rigid and flexible earth retaining structures. Analysis and design of retaining walls, anchored bulkheads, braced cuts, tie back cuts, mechanically stabilized earth, and slurry trench walls. Lateral earth pressure due to soil, water, surcharge loads, etc., local and overall stability and the design of anchorage and bracing systems.

**Requisites:** Civ Engr 330; Comp Sci 310 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2010**CIV ENGR/G L E 532 – FOUNDATIONS**

3 credits.

Shallow and deep foundations. Analysis and design of footings, mats, piers and piles, and related fill and excavation operations. Consolidation settlement, time rate of settlement, stress distribution, elastic (immediate) settlement, load bearing capacity; methods to reduce settlements and increase shear strength; the selection of a foundation system.

**Requisites:** Civ Engr 330 Comp Sci 310 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**CIV ENGR 534 – FIELD METHODS IN GEOLOGICAL ENGINEERING**

3 credits.

Methods of site investigations for the rational design of structures in rocks and soil. Field reconnaissance, exploratory drilling, in situ testing, during and post-excavation monitoring.

**Requisites:** Civ Engr 330 GLE 474, or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2009**CIV ENGR 543 – PRECAST CONCRETE**

3 credits.

Design of structural systems using precast concrete components, capacity of prestressed components, fire ratings, connections and construction of precast systems.

**Requisites:** Civ Engr 447**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2012**CIV ENGR 545 – STEEL STRUCTURES II**

3 credits.

Composite construction; composite vs. non-composite behavior; shored vs. unshored construction; stability of frames; elastic analysis of frames including second order effects; strength of members subject to combined flexure and axial compression; plate girders; vertical flange buckling; flexural and shear strength; flexure and shear interaction; stiffener requirements.

**Requisites:** Civ Engr 445**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**CIV ENGR 547 – CONCRETE STRUCTURES II**

3 credits.

Deflections under short duration and sustained loads; compression members with emphasis on stability and secondary bending moments; two-way slab systems; prestressed concrete including prestress losses; design of shear walls, special topics in strut and tie modelling, compression field theory and design for torsion may be covered; flexure analysis; design of sections; and shear strength.

**Requisites:** Civ Engr 447**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017



**CIV ENGR/ENVIR ST/LAND ARC 556 – REMOTE SENSING DIGITAL IMAGE PROCESSING**

3 credits.

Techniques of enhancement and quantification of remote sensing imagery. Emphasis on processing and analyzing data gathered by airborne and satellite sensors. Techniques to quantitatively analyze data from photography, electro-optical scanners, satellite systems, and radar and passive microwave systems. A 5-week practicum with applications to: agriculture and forestry, geology and soils, water quality, and urban and regional planning.

**Requisites:** Civ Engr/Envir St/Forestry 303 or authorization

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**CIV ENGR/A A E/ENVIR ST/URB R PL 561 – ENERGY MARKETS**

3 credits.

Energy resources are an essential element of the world's business, political, technical and environmental landscape. Analytic tools provided by the discipline of economics expands our understanding of this critical issue. Energy supply markets reviewed include both fossil fuels and renewable resources. Energy demand sectors include residential, commercial, industrial and transportation. Electricity represents an intermediate energy market. The interactions among these markets participants indicate how scarce resources are allocated among competing needs in the world economy.

**Requisites:** A A E 215, ECON 101, or ECON 111

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CIV ENGR 570 – ENVIRONMENTAL IMPACT OF TRANSPORTATION SYSTEMS**

3 credits.

Nature of the ecosystem and ecosystem modeling, the nature of transportation produced impacts on man's social, economic, physical and emotional well being, on wildlife, natural areas, agricultural areas; environmental economics; measuring and evaluating environmental quality, and citizen tactics in response to environmental issues.

**Requisites:** Jr st or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2012

**CIV ENGR 571 – URBAN TRANSPORTATION PLANNING**

3 credits.

Principles of planning, evaluation, selection, adoption, financing, and implementation of alternative urban transportation systems; formulation of community goals and objectives, inventory of existing conditions; transportation modeling—trip generation, distribution, modal choice, assignment, technological characteristics and operation of modern transit and other movement systems.

**Requisites:** Civ Engr 370 or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CIV ENGR 573 – GEOMETRIC DESIGN OF TRANSPORT FACILITIES**

3 credits.

Problems in ground transportation facility design; generation, capacity, location and design; rural and urban at-grade intersection design; grade separations; interchanges; parking lots and terminals.

**Requisites:** Civ Engr 370

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CIV ENGR 574 – TRAFFIC CONTROL**

3 credits.

Traffic data collection studies; measures of effectiveness and evaluation of traffic system performance; design and application of traffic control devices; design of traffic signal systems; operational controls and traffic management strategies.

**Requisites:** Civ Engr 370 or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CIV ENGR 575 – ADVANCED HIGHWAY MATERIALS AND CONSTRUCTION**

3 credits.

Soils, soil stabilization, aggregates, bituminous materials and mixtures, general highway materials and construction of rigid and flexible pavements.

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016



**CIV ENGR 576 – ADVANCED PAVEMENT DESIGN**

3 credits.

Covers the principles of stress and strain analyses in typical highway pavement structures due to loading from traffic and climate. Also covers the most commonly used analysis and design procedures/software to determine thickness of pavement layers and prediction of performance.

**Requisites:** Civ Engr 395**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR 578 – SENIOR CAPSTONE DESIGN**

4 credits.

The application of theoretically and academically acquired knowledge to a civil and environmental engineering problem in as near "real-world" as possible.

**Requisites:** Completion of at least 1 crse which carries 3 cr of design**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR 579 – SEMINAR-TRANSPORTATION ENGINEERING**

1 credit.

Current problems and research developments in transportation, highways, traffic engineering, and transportation planning and systems analysis.

**Requisites:** Sr st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CIV ENGR 592 – CONSTRUCTION LABOR PRODUCTIVITY MANAGEMENT**

3 credits.

Comprehensive systems approach to construction labor productivity management and methods improvement. Productivity measurements including work sampling, crew balance charts, process charts, flow diagram and others. The course also includes external factors affecting labor productivity, such as change orders, overmanning, stacking of trades and weather. An integral part of this course is the impact of safety on productivity.

**Requisites:** None**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2010**CIV ENGR 596 – CONSTRUCTABILITY ANALYSIS**

3 credits.

Project facility delivery process; conceptual planning, design, construction, operation and maintenance, construction knowledge and experience, analysis of facility design from a construction perspective, constructability concepts.

**Requisites:** Jr st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2011**CIV ENGR 609 – SPECIAL TOPICS IN WATER CHEMISTRY**

1-3 credits.

Given on demand.

**Requisites:** Cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**CIV ENGR 618 – SPECIAL TOPICS IN HYDRAULICS AND FLUID MECHANICS**

1-3 credits.

Given on demand.

**Requisites:** Prereq varies with topic**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CIV ENGR 619 – SPECIAL TOPICS IN HYDROLOGY**

1-3 credits.

Given on demand.

**Requisites:** Cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CIV ENGR/SOIL SCI 623 – MICROBIOLOGY OF WATERBORNE PATHOGENS AND INDICATOR ORGANISMS**

3 credits.

Source, environmental fate and transport of major groups of waterborne pathogens, including epidemiology and testing of associated indicator organism. Management and treatment technologies for prevention of pathogen transmission.

**Requisites:** Soil Sci 523 or Civ Engr 322 or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CIV ENGR 629 – SPECIAL TOPICS IN ENVIRONMENTAL ENGINEERING**

1-3 credits.

Given on demand.

**Requisites:** Sr st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**CIV ENGR/M&ENVTOX/SOIL SCI 631 – TOXICANTS IN THE ENVIRONMENT: SOURCES, DISTRIBUTION, FATE, & EFFECTS**  
3 credits.

Nature, sources, distribution, and fate of contaminants in air, water, soil, and food and potential for harmful exposure.

**Requisites:** CHEM 343 345 or equiv; CHEM 561 or equiv; PHYSICS 103 104 or equiv; MATH 211; or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CIV ENGR/G L E 633 – WASTE GEOTECHNICS**  
3 credits.

The geotechnical aspects of waste disposal and storage. Critical aspects of geotechnical design, construction, and testing relevant to the performance of earthen structures used for the storage and disposal of wastes or the remediation of contaminated sites are discussed.

**Requisites:** Civ Engr 330 320 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**CIV ENGR/G L E 635 – REMEDIATION GEOTECHNICS**  
3 credits.

Geotechnical practice for remediation of sites containing contaminated soil and groundwater is discussed. Topics include non-invasive and invasive subsurface exploration techniques, methods to monitor for the presence of contaminants in the saturated and unsaturated zones, and geotechnically-oriented remedial action technologies.

**Requisites:** Civ Engr 320 330

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**CIV ENGR 639 – SPECIAL TOPICS IN GEOTECHNICAL ENGINEERING**  
1-4 credits.

Given on demand.

**Requisites:** Cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**CIV ENGR 641 – HIGHWAY BRIDGES**  
3 credits.

Design applications in structural steel, reinforced and prestressed concrete to simple span and continuous highway bridges; AASHTO Specifications and loading applications; composite concrete-steel bridges; lateral and longitudinal forces on superstructure and substructure and substructures; pier design; multicell box culverts.

**Requisites:** Civ Engr 445, 447

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CIV ENGR 649 – SPECIAL TOPICS IN STRUCTURAL ENGINEERING**  
1-3 credits.

Given on demand.

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**CIV ENGR 669 – SPECIAL TOPICS IN CONSTRUCTION ENGINEERING AND MANAGEMENT**  
1-4 credits.

Advanced topics of special interest to seniors and grad students in construction engineering and management.

**Requisites:** None

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CIV ENGR 679 – SPECIAL TOPICS IN TRANSPORTATION AND CITY PLANNING**  
3 credits.

Given on demand.

**Requisites:** Cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CIV ENGR/PUB AFFR 694 – MANAGEMENT OF CIVIL INFRASTRUCTURE SYSTEMS**  
3 credits.

Comprehensive systems approach to civil infrastructure and asset management with emphasis on transportation facilities. Social, political, economic factors that influence transportation planning, design, construction, maintenance and operation. Needs assessment, information management, performance measurement, life cycle cost and benefits analysis, prioritization and optimization, budgeting and finance.

**Requisites:** Grad st or cons inst, Civ Engr 494 or equiv

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**CIV ENGR 699 – INDEPENDENT STUDY**

1-9 credits.

**Requisites:** So st

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CIV ENGR 700 – CHEMISTRY OF NATURAL WATERS**

3 credits.

Application of chemical principles to cycling of important elements in natural waters; mineral weathering, cycles of carbon, nitrogen, phosphorus, silicon, sulfur, and minor elements in natural waters; relationships of atmospheric chemistry to natural waters.

**Requisites:** Civ Engr 500 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**CIV ENGR/ATM OCN 701 – THE CHEMISTRY OF AIR POLLUTION**

2 credits.

The course will cover background and modern research methods for the application of chemical analysis tools to understanding of the origin, composition, and the chemical transformations of pollutants that occur in the atmosphere. Emphasis will be directed at the pollutants impacting human health, climate change, and ecosystem degradation. Approximately half of the course materials will be taken from the scientific literature and will provide the opportunity to advance skills in the critical reading of journal articles. The course is directed at graduate students conducting research and interested in air pollution and environmental chemistry. As part of the course, students will gain experience in presenting scientific research methods and results related to course materials.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**CIV ENGR 702 – GRADUATE COOPERATIVE EDUCATION PROGRAM**

1-2 credits.

Work experience that combines classroom theory with practical knowledge of operations to provide students with a background on which to develop and enhance a professional career. The work experience is tailored for MS students from within the U.S. as well as eligible international students.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**CIV ENGR 703 – ENVIRONMENTAL GEOCHEMISTRY**

3 credits.

This course will be a quantitative treatment of chemical and biological processes controlling the speciation and partitioning of inorganic compounds in natural waters. Particular attention will be paid to heterogeneous reaction mechanisms, and kinetics controlling inorganic compounds in aqueous environments. Additionally, we will discuss in-situ techniques for measurement of environmental reactions. This course is designed to appeal to graduate students who are interested in environmental chemistry, chemistry, limnology, geology, environmental microbiology, soil science, and environmental modeling.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CIV ENGR 704 – ENVIRONMENTAL CHEMICAL KINETICS**

3 credits.

This course examines the fundamental molecular processes that govern the fate and transformation of organic contaminants in natural environmental systems and engineered treatment processes. We will emphasize the kinetics describing these processes and focus on transformation mechanisms of organic contaminants in aquatic systems. Specific topics include partitioning between air, water, and solids; chemical kinetics; substitution, hydrolysis, and redox reactions; oxidation reactions encountered in ozone and chlorine-based disinfection systems; and photochemical and biological transformations.

**Requisites:** CIV ENGR 500; Graduate Standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**CIV ENGR 716 – STATISTICAL MODELLING OF HYDROLOGIC SYSTEMS**

3 credits.

Real world applications of probability and statistics to the analysis and modeling of problems in surface and groundwater hydrology. Assumes basic knowledge of probability and statistics.

**Requisites:** STAT 311 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CIV ENGR/ENVIR ST/URB R PL 717 – WATER RESOURCES MANAGEMENT PRACTICUM PLANNING SEMINAR I**

1 credit.

This is the first of two seminars used for planning the activities of the Summer Session Water Resources Management Practicum (ENVIR ST/ CIV ENGR/URB R PL 719).

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CIV ENGR/ENVIR ST/URB R PL 718 – WATER RESOURCES MANAGEMENT PRACTICUM PLANNING SEMINAR II**

2 credits.

This seminar is used for planning the field work, analysis and reporting of the Summer Session Water Resources Management Practicum (ENVIR ST/CIV ENGR/URB R PL 719).

**Requisites:** Adv Grad standing or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CIV ENGR/ENVIR ST/URB R PL 719 – WATER RESOURCES MANAGEMENT SUMMER PRACTICUM**

4 credits.

Interdisciplinary team of students and staff working with agency personnel, citizen groups, and/or private sector representatives on the analysis of a contemporary, problem-oriented water resource issue. Physical, biological, economic and social aspects of the issue analyzed. Comprehensive written report results, practicum's findings and management recommendations.

**Requisites:** Envir St/Civ Engr/Urb R Pl 718 or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**CIV ENGR 721 – BIOLOGICAL PRINCIPLES OF ENVIRONMENTAL ENGINEERING**

3 credits.

Biological principles important to diagnosing and controlling pollution through environmental engineering applications such as fate and transport of contaminants in the environment, eutrophication, water treatment for human consumption, biological waste treatment for pollution control and bioenergy generation.

**Requisites:** Students must be accepted into an online Master of Engineering degree program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CIV ENGR 722 – CHEMICAL PRINCIPLES OF ENVIRONMENTAL ENGINEERING**

3 credits.

Principles of general, physical, equilibrium, colloid and biochemistry applied to environmental engineering processes such as evaluating environmental quality and treating water, air and soil to meet environmental standards.

**Requisites:** Students must be accepted into an online Master of Engineering degree program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CIV ENGR 723 – ENERGY PRINCIPLES OF ENVIRONMENTAL ENGINEERING**

3 credits.

Principles of energy applied to environmental engineering such as energy resources, sustainability concerns, work and power, thermodynamics, system and process efficiencies, energy production from waste, heat transfer, and heating and cooling of systems.

**Requisites:** Declared in masters program in Civil and Environmental Engineering - Environmental Engineering

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**CIV ENGR/G L E 730 – ENGINEERING PROPERTIES OF SOILS**

3 credits.

Determination and interpretation of soil properties for engineering purposes; physio-chemical properties of soil-water systems, permeability and capillarity, compression characteristics of soils, measurement of soil properties in the triaxial test, properties of frozen soils and permafrost.

**Requisites:** Civ Engr 330

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CIV ENGR/G L E 731 – PROPERTIES OF GEOSYNTHETICS**

3 credits.

Properties and behavior of geosynthetics (plastics sheets and geotextiles used in geotechnical and geo-environmental construction) are discussed and measured in a laboratory setting. Students learn how to measure and quantify geomechanical and hydraulic behavior of geosynthetics which are used in design.

**Requisites:** Grad st Civ Engr 330, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**CIV ENGR/G L E 732 – UNSATURATED SOIL GEOENGINEERING**

3 credits.

Engineering principles of unsaturated soils as they apply to geotechnical and geoenvironmental systems. Effect of soil water suction and stress on hydraulic conductivity, shear strength, and compressibility of soils in the context of geoengineering problems of flow and stability.

**Requisites:** Grad st Civ Engr/GLE 330 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CIV ENGR/G L E 733 – PHYSICOCHEMICAL BASIS OF SOIL BEHAVIOR**  
3 credits.

Applications of physicochemical, mineralogical and environmental considerations to the engineering behavior of soils. Soil composition, formation, fabric, pore fluid chemistry and interaction of phases. The particulate nature of soils and the fabric-engineering property (volume change, strength, deformation and conduction) relationships.

**Requisites:** Civ Engr 330 or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**CIV ENGR/G L E 735 – SOIL DYNAMICS**

3 credits.

Geotechnical considerations of earthquake engineering and foundation vibrations. Seismic surveying; ground motion during earthquakes; determination of soil properties for ground response analysis; dynamic properties of soils; soil structure interaction effects; soil liquefaction; dynamic analysis of earth dams; settlements resulting from earthquakes, lateral earth pressures during earthquakes; foundation vibrations.

**Requisites:** Civ Engr/EMA 530, EMA 545 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**CIV ENGR 739 – SPECIAL TOPICS IN GEOTECHNICAL ENGINEERING**

1-4 credits.

Advanced topics of special interest to graduate students in geotechnical engineering.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2009

**CIV ENGR 740 – ADVANCED METHODS OF STRUCTURAL ANALYSIS**

3 credits.

Advanced topics in modern structural analysis including development of stiffness matrices, modeling connections, nonlinear geometry, nonlinear materials.

**Requisites:** Civ Engr 440

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2008

**CIV ENGR 744 – STRUCTURAL DYNAMICS AND EARTHQUAKE ENGINEERING**

3 credits.

Response of Single Degree of Freedom (SDOF) systems; numerical evaluation of dynamic response; earthquake response of SDOF systems; response spectra; Multi Degree of Freedom (MDOF) systems; natural frequencies and vibration modes; modal superposition; direct integration; damping of MDOF systems; earthquake response of MDOF systems; earthquake resistant design (basic principles) .

**Requisites:** Civ Engr 440 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**CIV ENGR 749 – SPECIAL TOPICS IN STRUCTURAL ENGINEERING**

1-4 credits.

Advanced topics of special interest to graduate students in structural engineering.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CIV ENGR/ENVIR ST 772 – PRACTICUM IN TRANSPORTATION MANAGEMENT AND POLICY**

3 credits.

Integrative capstone course in transportation management and policy. Interdisciplinary team experience in the application of theoretical knowledge and analytical tools for developing policy and making management decisions on "real-world" problems.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**CIV ENGR 790 – MASTER'S RESEARCH OR THESIS**

1-9 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017



**CIV ENGR 795 – CHARACTERIZATION OF ASPHALT BINDERS**

3 credits.

Fundamentals of asphalt production methods, refining practices, and modification techniques. Asphalt rheological testing, linear and non-linear visco-elasticity, conventional and Superpave characterization techniques. The role of asphalt rheology in pavement response and pavement performance. Course includes hands-on training on using different rheometers used in binder grading systems.

**Requisites:** Civ Engr 395 or 575**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2012**CIV ENGR 820 – HYDRAULICS AND APPLIED FLUID MECHANICS FOR ENVIRONMENTAL ENGINEERS**

3 credits.

Principles of hydraulics and fluid mechanics applied to environmental engineering systems that convey, control, and measure the flow of liquids, solid-liquid slurries, and gases.

**Requisites:** Students must be accepted into an online Master of Engineering degree program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**CIV ENGR 821 – ENVIRONMENTAL ENGINEERING: BIOLOGICAL TREATMENT PROCESSES**

3-4 credits.

Advanced theory and applications of biological systems for the treatment of wastes; lab techniques to assess treatability and to provide design parameters.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CIV ENGR 822 – ENVIRONMENTAL ENGINEERING: PHYSICAL/CHEMICAL TREATMENT PROCESS**

3-4 credits.

Advanced theory and applications of chemical and physical-chemical processes for the treatment of water and wastewater; lab techniques to assess design requirements and treatability.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CIV ENGR 823 – ENVIRONMENTAL ENGINEERING DESIGN PROJECT**

3 credits.

Engineering design project applied to environmental engineering solutions involving environmental chemistry, environmental quality, physical-chemical treatment processes, biological treatment processes, solid and hazardous waste engineering, energy, resource recovery, economic analysis, hydrology, and/or hydraulics and applied fluid mechanics.

**Requisites:** Declared in Master of Science in Civil and Environmental Engineering or Environmental Chemistry and Technology, or Master of Engineering in Civil and Environmental Engineering-Environmental Engineering Option**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**CIV ENGR/URB R PL 839 – LAND USE AND COMMUNICATION SYSTEMS PLANNING**

3 credits.

Application of systems analysis to the planning of land use and transportation systems; system modeling; environmental impacts; value measurement; decision-making strategies.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**CIV ENGR 890 – PRE-DISSERTATOR'S RESEARCH**

1-9 credits.

**Requisites:** Grad st, for post-master's, pre-dissertator stdts only**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CIV ENGR 909 – GRADUATE SEMINAR - ENVIRONMENTAL CHEMISTRY & TECHNOLOGY**

1 credit.

Armstrong.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CIV ENGR/ATM OCN/BOTANY/ENVIR ST/GEOSCI/ZOOLOGY 911 – LIMNOLOGY AND MARINE SCIENCE SEMINAR**

1 credit.

Sections in various fields of zoological research.

**Requisites:** Grad st in limnology marine sci grad prgm or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**CIV ENGR 919 – SEMINAR-HYDRAULIC ENGINEERING AND FLUID MECHANICS**

1 credit.

Current research and review of literature in theoretical and applied fluid mechanics and hydraulic engineering.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CIV ENGR 929 – SEMINAR-ENVIRONMENTAL ENGINEERING**

1 credit.

Current research and literature on water, wastewater, water pollution control, solid wastes engineering and management.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CIV ENGR 939 – GEOTECHNICAL ENGINEERING SEMINAR**

1 credit.

Geotechnical analysis, design, and construction.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**CIV ENGR 949 – SEMINAR-STRUCTURAL ENGINEERING**

1 credit.

Structural analysis, design, and construction.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2003

**CIV ENGR/ENVIR ST 950 – ENVIRONMENTAL MONITORING SEMINAR**

1 credit.

Current research and literature dealing with environmental remote sensing and geographic information systems.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2006

**CIV ENGR/ENVIR ST 970 – COLLOQUIUM IN TRANSPORTATION MANAGEMENT AND POLICY**

1 credit.

Current issues, case studies, research, and literature dealing with transportation management and policy development.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**CIV ENGR 990 – THESIS**

1-12 credits.

Required for some M.S. and all Ph.D. degrees.

**Requisites:** Dissertator status

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CIV ENGR 999 – ADVANCED INDEPENDENT STUDY**

1-9 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CLASSICS (CLASSICS)****CLASSICS 100 – LEGACY OF GREECE AND ROME IN MODERN CULTURE**

3 credits.

Explores the legacy of ancient Greek and Roman Civilization in modern culture. Challenges students to appreciate the roots of western civilization and to understand and interpret reflections of antiquity in today's society.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CLASSICS/HISTORY 110 – THE ANCIENT MEDITERRANEAN**

4 credits.

An examination of the evolution of the human community in the Mediterranean Basin, from the beginning of the earliest civilizations in the Near East (3,000 B.C.E.) until the collapse of the Roman Empire in the West (500 C.E.).

**Requisites:** Open to all Undergrads

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CLASSICS 150 – ANCIENT GREEK AND ROMAN MONSTERS**

3 credits.

Ancient monsters were forces of chaos that threatened the natural order of the universe: they had to be contained, banished to the edges of the world or destroyed. But the Greeks and Romans also believed them to be magical beings that held the promise of special knowledge - of the past, of dangers to be faced, of musical arts - or which, like the Sphinx, possessed an enigmatic intelligence capable of fooling all but the most cunning of mortals. In this course we investigate these contrasting aspects of ancient monsters, drawing directly on texts (in translation) and works of art through which the Greeks and Romans explored the monstrous and its place in their world. We also compare ancient representations with those in modern artistic media - comics, games, stories and movies - considering both how our notions of the monstrous are influenced by or contrast with those of our ancient predecessors, and how our very identities are created by and enacted through our depictions of monsters.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**CLASSICS 205 – GREEK AND LATIN ORIGINS OF MEDICAL TERMS**

3 credits.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**CLASSICS/JEWISH/LITTRANS/RELIG ST 227 – INTRODUCTION TO BIBLICAL LITERATURE (IN ENGLISH)**

4 credits.

Introduction to the literature and literary history of the Old Testament, Apocrypha, Dead Sea Scrolls, Talmud, and Midrashim.

**Requisites:** Not open to students that have completed HEBR ST 217**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**CLASSICS/JEWISH/LITTRANS/RELIG ST 237 – BIBLICAL POETRY IN TRANSLATION**

3 credits.

A study of the poetry of the Hebrew Bible as literature within the context of other ancient Near Eastern poetry. Influence of biblical poetry on the Dead Sea Scrolls, New Testament, medieval Hebrew poetry, and Jewish and Christian liturgies.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2010**CLASSICS/JEWISH 241 – INTRODUCTION TO BIBLICAL ARCHAEOLOGY**

4 credits.

An overview of archaeology and its relationship to understanding the biblical world.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**CLASSICS/ART HIST 300 – THE ART AND ARCHAEOLOGY OF ANCIENT GREECE**

3-4 credits.

Explores the art and archaeology of ancient Greece from the Bronze Age through the Hellenistic period.

**Requisites:** Open to all Undergrads**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CLASSICS/ART HIST 304 – THE ART AND ARCHAEOLOGY OF ANCIENT ROME**

3-4 credits.

Explores the art and archaeology of ancient Italy, the Roman Republic, and the Roman Empire from the Iron Age to Late Antiquity.

**Requisites:** Open to all Undergrads**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**CLASSICS 320 – THE GREEKS**

3 credits.

Greek literature in translation with emphasis on its social background.

**Requisites:** Open to Freshmen**Course Designation:** Gen Ed - Communication Part B

Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CLASSICS 322 – THE ROMANS**

3 credits.

Latin literature in translation with emphasis on its social background.

**Requisites:** Open to Freshmen**Course Designation:** Gen Ed - Communication Part B

Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**CLASSICS 330 – ANCIENT EPIC**

3 credits.

This course is an introduction to the epic poetry of Greece and Rome. The reading list will vary, with assigned texts selected from Homer's Iliad and Odyssey, Apollonius' Argonautica, Virgil's Aeneid, Ovid's Metamorphoses, and Lucan's Civil War. The course will explore important themes of epic literature both as they are developed within each text and as they evolve from the Greek Archaic to the Hellenistic age, and eventually to Augustan Rome. The course will also explore the influence of ancient epic on literature from the middle ages to the modern period.

**Requisites:** Sophomore standing or consent of instructor**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**CLASSICS/HEBR-BIB/JEWISH/LITTRANS/RELIG ST 332 – PROPHETS OF THE BIBLE**

4 credits.

An introduction to the thought, literature, and history of the prophets of ancient Israel (in English).

**Requisites:** CLASSICS/JEWISH/LITTRANS/RELIG ST/CLASSICS/JEWISH/LITTRANS 227 or Sophomore standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**CLASSICS/JEWISH/RELIG ST 335 – KING DAVID IN HISTORY AND TRADITION**

3 credits.

An exploration of the literary and historical aspects of the text of 1-2 Samuel + 1 Kings 1-2; the history and archaeology of Jerusalem during the tenth century B.C.E.; and the varieties of ways in which the figure of King David has been received in subsequent religious and secular literature, visual art, music, television, and cinema.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CLASSICS 340 – CONSPIRACY IN THE ANCIENT AND MODERN WORLDS**

3 credits.

Focusing primarily on the world of the ancient Romans, this course (in translation) interrogates the phenomenon and notion of "conspiracy" within the political, social, and religious spheres. After investigating some of the more famous political conspiracies (e.g. the Catilinarian Conspiracy, assassination of Julius Caesar, etc.), we will then turn to the structure of the traditional Roman household, including the preeminence of the paterfamilias and the challenges that women, children, and/or slaves pose to his notional "tyranny." Finally, we will consider a number of prominent religions that came into conflict with Roman authorities - especially the mystery cults surrounding Bacchus as well as early Christianity. We will also have the opportunity to bring to bear the insights gleaned from the ancient world on the modern one in our consideration of such modern conspiracies as the Salem Witch Trials, the Red Scare of the '50s, the Kennedy Assassination, and the Watergate Conspiracy. As we shall see, "conspiracy" can be a tendentious concept that often reveals more about the society and culture in which it occurs (as well as the authors who write about it) than the actual activities it would seem to denote.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**CLASSICS/JEWISH/RELIG ST 346 – JEWISH LITERATURE OF THE GRECO-ROMAN PERIOD**

3 credits.

Jewish literature from 350 BCE to 150 CE. The Greek and Hebrew sources include stories, religious poetry, wisdom books and apocalyptic texts. Readings (in translation) from the Apocrypha, Pseudepigrapha, and the Dead Sea Scrolls in their historical, cultural and literary setting.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016

**CLASSICS/ITALIAN 350 – ROME: THE CHANGING SHAPE OF THE ETERNAL CITY**

3-4 credits.

Changing shape of Rome as a physical city and as a cultural metaphor from the Augustan age to the Renaissance.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**CLASSICS/GEN&WS 351 – GENDER AND SEXUALITY IN THE CLASSICAL WORLD**

3-4 credits.

Constructions of gender and sexuality in the classical world through art, literature and archaeology.

**Requisites:** Sophomore standing or consent of instructor**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**CLASSICS/GEN&WS 361 – SEX AND POWER IN GREECE AND ROME**

3 credits.

Sex as a source of domination and liberation in Ancient Greek and Roman literature and modern European and North American theory and practice, including questions of sexual orientation, gender identity, violence, and self-realization.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CLASSICS 370 – CLASSICAL MYTHOLOGY**

3 credits.

Classical myths and their influence on later literature and art.

**Requisites:** Open to Fr**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**CLASSICS 371 – TOPICS IN GREEK CULTURE**

1-3 credits.

Selected aspects of Greek culture (e.g., sports, women, the family, warfare), with emphasis on literary remains.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CLASSICS 372 – TOPICS IN ROMAN CULTURE**

1-3 credits.

Selected aspects of Roman culture (e.g., sports, women, the family, warfare), with emphasis placed on literary remains.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CLASSICS 373 – TOPICS IN CLASSICAL CULTURE**

1-3 credits.

Selected aspects of Classical culture (e.g., sports, women, the family, warfare), with emphasis on literary remains.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CLASSICS 376 – LOVE POETRY OF THE ANCIENT MEDITERRANEAN**

3 credits.

Selections from the love poetry of four ancient cultures: Egypt, Greece, Israel, and Rome. We will read a variety of lyric poems in the context of their larger socio-historical settings, observing the culturally conditioned representations of desire.

**Requisites:** Open to Fr**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2012

**CLASSICS 379 – EUREKA! TECHNOLOGY AND PRACTICE IN THE ANCIENT WORLD**

3 credits.

Chronicles the development of technology and engineering in the civilizations of ancient Greece and Rome, with attention to earlier advances in Mesopotamia and Egypt. Imparts an appreciation for the legacy of ancient science and technology in modern culture.

**Requisites:** Open to Fr**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2011**CLASSICS 430 – TOPICS IN CLASSICAL ARCHAEOLOGY**

3 credits.

Explores topics in the archaeology of ancient Greece and Rome, such as the Seven Wonders of the Ancient World, the archaeology of Greek and Roman religion, or Late Antique Palaces.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CLASSICS/JEWISH 451 – BIBLICAL ARCHAEOLOGY**

3 credits.

An examination of current problems, methods, and trends in archaeological research in the lands of the Bible.

**Requisites:** Junior standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**CLASSICS/HISTORY/RELIG ST 517 – RELIGIONS OF THE ANCIENT MEDITERRANEAN**

3 credits.

Ancient religions in their political, social and cultural contexts; topics include ritual, literary and artistic representations, religious persecutions, and/or modern approaches to the study of ancient religions. Chronological and geographical focus will vary between Greece, Rome, Judaea and Egypt.

**Requisites:** Sophomore Standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**CLASSICS/FRENCH/HISTORY/ITALIAN/MEDIEVAL 550 – ADVANCED INTERDISCIPLINARY STUDIES IN MEDIEVAL CIVILIZATION**

3 credits.

An integrated treatment of a specific theme, to be announced by a group of specialists in different fields.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012**CLASSICS 554 – CLASSICAL BACKGROUNDS TO ENGLISH LITERATURE**

3 credits.

**Requisites:** So st**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**CLASSICS 556 – THE LITERATURE OF ANCIENT ROME**

3 credits.

**Requisites:** So st**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2010**CLASSICS/HIST SCI/HISTORY/MED HIST/S&A PHM 561 – GREEK AND ROMAN MEDICINE AND PHARMACY**

3 credits.

Greek and Roman medicine and drug lore from the Pre-Socratics to Oribasius (c. 600 B.C. - A.D. 350), including the backgrounds of ancient Egyptian and Mesopotamian medicine.

**Requisites:** Junior standing**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**CLASSICS 568 – TOPICS IN CLASSICAL LITERATURE**

1-3 credits.

Selected aspects of Greek and Latin literature (e.g., genres such as epic or drama), with special attention to the relationship between the two literary traditions.

**Requisites:** Jr st**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014

**CLASSICS 591 – UNDERGRADUATE SEMINAR: APPROACHES TO THE CLASSICAL WORLD**

3 credits.

**Requisites:** At least 1 sem of Greek or Latin; chiefly for classical humanities, classics majors, or honors stdts**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CLASSICS 602 – THE ANCIENT MEDITERRANEAN CITY**

3 credits.

Explores the archaeological and literary sources for the ancient Mediterranean city. Readings focus on the primary and secondary literature for the topography and architecture of a specific city or group of cities with a geographical, temporal, or political link.

**Requisites:** Cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2010**CLASSICS 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2015**CLASSICS 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2016**CLASSICS 691 – SENIOR THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**CLASSICS 692 – SENIOR THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**CLASSICS 699 – DIRECTED READING**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CLASSICS/ART HIST 700 – THE ART AND ARCHAEOLOGY OF ANCIENT GREECE**

3 credits.

Explores the art and archaeology of ancient Greece from the Bronze Age through the Hellenistic period.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**CLASSICS/ART HIST 704 – THE ART AND ARCHAEOLOGY OF ANCIENT ROME**

3 credits.

Explores the art and archaeology of ancient Italy, the Roman Republic, and the Roman Empire from the Iron Age to Late Antiquity.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CLASSICS/HISTORY 801 – SEMINAR-ANCIENT HISTORY**

1-3 credits.

Special problems in Greek and Roman history studied in alternate years.

**Requisites:** Grad st reading knowledge of appropriate foreign language**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CLASSICS/PHILOS 830 – ADVANCED HISTORY OF PHILOSOPHY**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**CLASSICS 900 – ADVANCED SEMINAR IN THEORY AND METHODOLOGY**  
3 credits.

This seminar is intended for graduate students in Classical and Ancient Near Eastern Studies who are enrolled in either the Classics option or the Hebrew Bible option. The aims of the seminar are to improve students' research skills, to help them develop important expertise not gained in general coursework, and to engage with topics that make CANES graduates distinctive when applying for positions after the PhD.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**CLASSICS 970 – CLASSICAL LITERATURE AND CULTURE**  
3-4 credits.

Examines central literary and cultural issues in classical antiquity from both Greek and Roman perspectives.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

## COLLABORATIVE NURSING PROGRAM (CNP)

**CNP 306 – TRANSITIONS: PRACTICE, PROFESSIONAL AND PERSONAL**  
3 credits.

This course is designed to advance students' knowledge of nursing as it is embedded in clinical practice, address current and emerging health care trends, and examine healthcare workforce data and health care policy as it impacts opportunities for and impediments to nursing practice.

**Requisites:** Admission to the BSN@Home Program or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CNP 317 – HEALTH ASSESSMENT**  
3 credits.

Techniques of health history and physical examination to ascertain normal from variations of normal health conditions, in addition cultural and developmental variations are considered.

**Requisites:** Admission to the BSN@Home Program or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**CNP 407 – FOUNDATIONS OF PROFESSIONAL NURSING PRACTICE**  
3 credits.

Philosophical perspectives, theories, and standards are applied to the practice of professional nursing. Factors influencing nursing/health care delivery are analyzed. Professional communication skills are enhanced. This is a writing emphasis course.

**Requisites:** BSN@Home student or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CNP 441 – CHRONIC CARE MANAGEMENT**  
3 credits.

Exploration of interaction of biological, psychological, social, and environmental factors important to understanding management of chronic conditions at the individual, family, community, and societal levels.

**Requisites:** BSN@Home student or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CNP 446 – RESEARCH AND EVIDENCE-BASED PRACTICE**  
3 credits.

Course introduces the importance of research to improve clinical practice, strategies to evaluate the quality of research and evidence, and increase integration of research into practice.

**Requisites:** BSN@Home student or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CNP 447 – LEADERSHIP AND MANAGEMENT**  
3 credits.

Examines nursing leadership and management using relevant theories and concepts. Analyze decision-making in relation to communication, delegation, supervision and group process.

**Requisites:** BSN@Home student or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CNP 453 – INFORMATION MANAGEMENT AND HEALTHCARE TECHNOLOGY**  
3 credits.

Utilize computer and information/decision science to support quality and safety in health care. Explore informatics issues and examine nursing's role in healthcare technology. Opportunities to use and master various healthcare technologies and healthcare data will be given.

**Requisites:** BSN@Home student or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CNP 454 – COMMUNITY HEALTH NURSING**  
3 credits.

Nursing care of populations and communities to facilitate optimal health outcomes.

**Requisites:** BSN@Home student or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CNP 490 – SPECIAL TOPICS IN NURSING**

1-4 credits.

The special topics course is designed to provide a planned, systematic analysis of topics, issues and problems in the area of nursing.

**Requisites:** Cons inst**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CNP 519 – CAPSTONE PRACTICUM FOR REGISTERED NURSES**

3 credits.

Combines seminar and clinical practicum hours that enable Associate Degree Registered Nurses to complete their baccalaureate degree. The course will synthesize professional nursing knowledge in a variety of practice settings. Practicum sites may include hospitals, clinics, longterm care (LTC), and community-based settings, in addition to potential experiences in health care policy and systems. Students will expand skills sets by exposure to best practices in a clinical setting of choice. The practicum enriches the integration of knowledge from current and past academic and clinical learning experiences.

**Requisites:** CNP 306 and (completion or concurrent enrollment in CNP 407, 441, 446, 447, 453, 454, and 490)**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMMUNICATION ARTS (COM ARTS)****COM ARTS 100 – INTRODUCTION TO SPEECH COMPOSITION**

3 credits.

Teaches students to give effective oral presentations in a variety of public speaking situations and to become better consumers of written and oral discourse. Students will also learn basic composition and outlining skills as well as library research techniques.

**Requisites:** Not open to students who have credit for COM ARTS 105 or 181**Course Designation:** Gen Ed - Communication Part A

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 105 – PUBLIC SPEAKING**

2 credits.

Development of fundamental skills in the preparation, delivery, and evaluation of the common forms of public address. Students desiring honors should elect 181.

**Requisites:** Not open to students who have credit for COM ARTS 100 or 181**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**COM ARTS 155 – INTRODUCTION TO DIGITAL MEDIA PRODUCTION**

4 credits.

Teaches students the skills they need to produce, engage with, and understand new and emerging technologies within the context of communication and creative expression. Students will become more critical consumers and producers of digital media.

**Requisites:** Undergraduate career students only (excludes Grad, Pharm, Law, Med, Vet Med, Guest, Special careers)**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 181 – ELEMENTS OF SPEECH-HONORS COURSE**

3 credits.

The process of oral communication; principles of effective speaking; application of principles in selected speaking and reading projects.

**Requisites:** Not open to students who have credit for COM ARTS 100 or 105**Course Designation:** Gen Ed - Communication Part A

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 198 – DIRECTED STUDY**

1-3 credits.

Graded on a Cr/N basis; requires written cons inst

**Requisites:** Open to Fr So only.**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2007**COM ARTS 199 – DIRECTED STUDY**

1-3 credits.

Graded on a lettered basis; requires written cons inst

**Requisites:** Open to Fr So only.**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2007**COM ARTS 200 – INTRODUCTION TO DIGITAL COMMUNICATION**

3 credits.

An introduction to digital communication and how it shapes our everyday lives. Students will develop digital communication skills, explore digital media tools and trends, and examine expressions of power online.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**COM ARTS 210 – TOPICS IN COMMUNICATION ARTS**

3 credits.

Introductory exploration of a current topic in Communication Arts.

**Requisites:** Varies with topic**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**COM ARTS 236 – BASCOM COURSE**

3 credits.

A low-enrollment course developing skills in critical reading, logical thinking, use of evidence, and use of library resources. Emphasis on writing in the conventions of specific fields. Open to Fr.

**Requisites:** Successful completion of or exemption from Com A requirement.**Course Designation:** Gen Ed - Communication Part B

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2009**COM ARTS 250 – SURVEY OF CONTEMPORARY MEDIA**

3 credits.

Key concepts for the critical analysis of television, film, radio, and digital media. Focusing primarily on meanings, aesthetics, technology, media industries, representations, and audiences.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 260 – COMMUNICATION AND HUMAN BEHAVIOR**

3 credits.

Concepts and processes relevant to the study of communication and human behavior including approaches to communication inquiry, the dynamics of face-to-face interaction, and the pragmatic and artistic functions of public communication.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 262 – THEORY AND PRACTICE OF ARGUMENTATION AND DEBATE**

3 credits.

Practice in preparation and delivery of various types of argumentative speeches and debates.

**Requisites:** Open to Fr**Course Designation:** Gen Ed - Communication Part B

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 263 – SPEECH COMPOSITION**

3 credits.

Application of rhetorical theory to composition, study of model speeches, and writing of speeches.

**Requisites:** Com Arts 100 or 181 or cons inst**Course Designation:** Gen Ed - Communication Part B

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2011**COM ARTS 266 – THEORY AND PRACTICE OF GROUP DISCUSSION**

3 credits.

Structure and dynamics of small group decision-making. Critical and creative problems in group interaction processes.

**Requisites:** Not open to students who have taken COM ARTS 276**Course Designation:** Gen Ed - Communication Part B

Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 272 – INTRODUCTION TO INTERPERSONAL COMMUNICATION**

3 credits.

Survey of concepts, theories, and research concerning communication across all phases of interpersonal relationships, focusing on both theoretical and practical applications.

**Requisites:** Not open to students who have taken COM ARTS 273 or COM ARTS 276**Course Designation:** Gen Ed - Communication Part B

Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**COM ARTS 273 – THEORY AND PRACTICE OF INTERPERSONAL COMMUNICATION**

3 credits.

Survey of concepts, theories, and research concerning communication across all phases of interpersonal relationships, focusing on both theoretical and practical applications. Does not satisfy the Com B requirement.

**Requisites:** Students who have taken Communication Arts 272 or 276 may not enroll in this course.

**Course Designation:** Breadth - Social Science  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**COM ARTS 288 – HONORS SEMINAR IN COMMUNICATION ARTS**

3 credits.

Freshmen/Sophomore Honors seminar. Topic varies.

**Requisites:** Fr So only

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2011

**COM ARTS 298 – DIRECTED STUDY**

1-3 credits.

Graded on a Cr/N basis; requires cons inst

**Requisites:** Com Arts 198 or Jr st.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

**COM ARTS 299 – DIRECTED STUDY**

1-3 credits.

Graded on a lettered basis; requires cons inst

**Requisites:** Com Arts 199 or Jr st.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**COM ARTS 300 – FILM COMEDY**

3 credits.

An exploration of the comedy genre, examining theories of humor in film; introducing conceptual tools for critical appreciation and analysis; and investigating different subgenres and tendencies prominent in various phases and traditions of popular film comedy.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**COM ARTS 310 – TOPICS IN RHETORIC AND COMMUNICATION SCIENCE**

3 credits.

Students explore a topic in rhetoric or communication science; the topic varies from semester to semester.

**Requisites:** Sophomore standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**COM ARTS 313 – TOPICS IN FILM AND MEDIA STUDIES**

3 credits.

Students explore a topic in film and media studies, history, and theory; the topic varies from semester to semester.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**COM ARTS 317 – RHETORIC AND HEALTH**

3 credits.

Investigate how the concept of health is rhetorically constructed and deployed in a number of different contexts. Explore how language and argument shape our understanding of health, how health is positioned in opposition to illness and disability, and how the meaning of health has become a site of argument and controversy.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**COM ARTS 325 – MEDIA AND HUMAN BEHAVIOR**

3 credits.

Investigate the ways in which individuals use, create, and respond to media content in the context of increasingly blurred boundaries between "mass" and "interpersonal" media. We will consider social scientific theories and research on a wide array of topics, including media uses and effects with regard to social connection, learning, judgments, perceptions, stereotypes, violence, consumption, and political participation.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COM ARTS 345 – ONLINE COMMUNICATION AND PERSONAL RELATIONSHIPS**

3 credits.

Examines how personal relationships unfold in online communication contexts (social network sites, online dating, video games). Topics include impression formation and management, deception and trust, self-perception and identity, social support and relationship maintenance.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**COM ARTS 346 – CRITICAL INTERNET STUDIES**

3 credits.

Traces the Internet's history, reception, audience, industries, rhetorics, fictional and filmic narratives, and potential as a purveyor and transmitter of culture and values.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS/CHICLA 347 – RACE, ETHNICITY, AND MEDIA**

3 credits.

Introduction to the changing images of race and ethnicity in U.S. entertainment media and popular culture. Surveys history, key concepts and contemporary debates regarding mediated representation of ethnic minorities. Critical and cultural studies approaches are emphasized.

**Requisites:** Open to Fr**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 350 – INTRODUCTION TO FILM**

3 credits.

Explains how films work using classics such as CITIZEN KANE, VERTIGO, BATTLESHIP POTEMKIN, THE MATRIX, and DO THE RIGHT THING (all shown during the "lab" screenings). Students study film as an art form and a medium, cover all the major film types (silent, classical, and contemporary narrative cinema, art cinema, animation, documentary, and experimental film), and get introduced to two basic approaches to film criticism: authorship criticism and genre criticism. They learn to recognize film techniques—mise-en-scène, cinematography, editing, and sound—and to analyze how filmmakers make us watch, think, and feel.

**Requisites:** Sophomore standing or Com Arts 250**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 351 – TELEVISION INDUSTRIES**

3 credits.

Critical overview of the cultural industries driving television in the United States, from broadcast networks and cable to downloading and streaming, focusing on economic and regulatory structures, programming practices, labor, globalization, audiences, and adaptations to changing conditions in the digital age.

**Requisites:** Sophomore standing or Com Arts 250**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 352 – FILM HISTORY TO 1960**

3 credits.

Development of cinema as a communication medium and art form from its origins to the 1960s. Attention given to national cinemas and international trends through the study of landmark films.

**Requisites:** Com Arts 350 or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**COM ARTS 354 – FILM STYLES AND GENRES**

3 credits.

Critical, historical, and theoretical examination of specimen film styles and genres.

**Requisites:** Com Arts 350 or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 355 – INTRODUCTION TO MEDIA PRODUCTION**

4 credits.

Theory and practice of media production and screenwriting.

**Requisites:** Sophomore standing or Com Arts 155**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**COM ARTS 357 – HISTORY OF THE ANIMATED FILM**

3 credits.

Survey of the development of animation as a motion picture production technique, as a film genre, a part of the Hollywood classical cinema, and an independent art form.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**COM ARTS 358 – HISTORY OF DOCUMENTARY FILM**

3 credits.

Development and history of documentary film and video from Lumiere to the present.

**Requisites:** Com Arts 350 or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**COM ARTS 359 – SPORTS MEDIA**

3 credits.

Examines sports media using the frameworks of media and cultural studies. The relationship between sports and popular culture provides an important site for understanding and critiquing the media's relationships to social, cultural, economic, and political structures. Topics for discussion will include sports media industries and technologies; representations of race, class, gender, sexual orientation, nationality, and other identities; and the intersection of sports media cultures with such issues as activism and social change, ethics and morality, gambling and fantasy sports, celebrity athletes, and fandom.

**Requisites:** COM ARTS 250 or 351**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 360 – INTRODUCTION TO RHETORIC IN POLITICS AND CULTURE**

3 credits.

An introduction to the study of rhetoric in politics and culture. Explores the interrelationship of theory, criticism, and practice. Students gain an understanding of rhetoric as a social force emerging from political and cultural contexts and as an influence on those contexts.

**Requisites:** Sophomore standing or COM ARTS 260**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 361 – INTRODUCTION TO QUANTITATIVE RESEARCH IN COMMUNICATION**

3 credits.

An introduction to social science research methods and statistical analyses applicable to the study of communication research and mass media effects.

**Requisites:** Enrollment limited to students with at least sophomore standing and completion of QRA requirement**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**COM ARTS 368 – THEORY AND PRACTICE OF PERSUASION**

3 credits.

A theory-based examination of the role of communication in attitude formation and planned social change. Analysis and creation of persuasive messages.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 370 – GREAT SPEAKERS AND SPEECHES**

3 credits.

Significant speeches from throughout history, generally from the United States. Speakers studied include Pericles, Abraham Lincoln, Elizabeth Cady Stanton, Frederick Douglass, Emma Watson, John F. Kennedy, Barbara Jordan, Nelson Mandela.

**Requisites:** Sophomore standing or COM ARTS 260**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**COM ARTS 371 – COMMUNICATION AND CONFLICT RESOLUTION**

3 credits.

Examines intra- and interpersonal theories of the causes and functions of conflict. Focuses on message strategies for conflict resolution and/or management. Both theoretical and applied issues.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017



**COM ARTS 372 – RHETORIC OF CAMPAIGNS AND REVOLUTIONS**

3 credits.

Public discourse as it affects and reflects the process of dynamic social change. Historical and contemporary instances of rhetorical processes.

**Requisites:** Sophomore standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**COM ARTS 373 – INTERCULTURAL COMMUNICATION & RHETORIC**

3 credits.

The transnational movement of people, goods, and discourses blurs the boundaries between the local and global, making intercultural communication and rhetoric essential to our personal and public lives. We explore how rhetoric and communication function between and across cultures and examine how culture, history, and power constitute our cultural identities, our modes of communication, and how we engage with others.

**Requisites:** Sophomore standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**COM ARTS/RELIG ST 374 – THE RHETORIC OF RELIGION**

3 credits.

Rhetorical character of religious controversy and sectarian persuasion in Western religion.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**COM ARTS 375 – ETHICS OF ENTERTAINMENT MEDIA**

3 credits.

Students develop skills for viewing and interrogating entertainment media through the lens of ethical theory and to articulate their own ethical stance on a diverse range of media, including documentary film, sports entertainment, reality television, and digital media. By approaching ethics from a media studies perspective, we will ask questions about how media are produced, how audiences are created and engaged, how communities and cultures are represented, and how we should respond to these different forms of media and the ethical questions that they raise.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COM ARTS 376 – TOPICS IN DIGITAL STUDIES (RADIO, TELEVISION, & FILM)**

3 credits.

Students explore topics in film and media studies, with a digital focus.

**Requisites:** Sophomore standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**COM ARTS 377 – TOPICS IN DIGITAL STUDIES (COMMUNICATION SCIENCE & RHETORIC)**

3 credits.

Students explore topics in communication science and rhetoric, with a digital focus.

**Requisites:** Sophomore standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**COM ARTS 378 – THE RHETORIC OF AFRICAN AMERICAN DISCOURSE**

3 credits.

Study of the rhetorical strategies of African Americans, focusing on historically important documents of oratory, argumentation, homiletic, and narrative.

**Requisites:** So st

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2007

**COM ARTS 400 – THE FILMS OF ALFRED HITCHCOCK**

3 credits.

Studies the major films of Alfred Hitchcock. Investigates the enduring power of his movies; contributions to genre and popular cinema; storytelling techniques; stylistic mastery; approach to romance, suspense, and action; status as an American auteur; and control over the audience's thoughts and feelings.

**Requisites:** Com Arts 350 or consent of the instructor**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 402 – THE PSYCHOLOGY OF COMMUNICATION**

3 credits.

The role and function of information processing in human communication behavior.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 410 – MISCOMMUNICATION**

3 credits.

Problematic aspects of miscommunication in the study of face-to-face interaction. Course helps explain why people often have so much difficulty understanding the intentions, interpretations, and meanings of other people's actions.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2009**COM ARTS/GEN&WS 418 – GENDER, SEXUALITY, AND THE MEDIA**

3 credits.

This course examines images of gender and sexuality in the media, with a focus on contemporary media in the U.S. Using theories from cultural studies, film and media studies, gender studies, and communication we will explore different processes and practices of gender and sexuality. We will look at the way that gender and sexuality are constructed through social, cultural, and economic forces, and the way that these identities intersect with other social identities such as race, ethnicity, and class. Through readings and class discussions we will consider the way that media impact our understanding of feminism and post-feminism, violence, celebrity, consumer culture, subcultures and activism.

**Requisites:** Must have junior standing or have taken one of the following courses: Gender Women's Studies 101, 102, or 103, or Gender Women's Studies/Sociology 200, or Communication Arts 250.**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**COM ARTS/CHICLA 419 – LATINO/AS AND MEDIA**

3 credits.

Critical and historical survey of the participation and representation of Latino/as in U.S. film, television, and popular culture, with a primary focus on Hispanic representation in Hollywood-produced imagery. The counter-images of Latino and Latina media producers also will be explored.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**COM ARTS/ASIAN AM 420 – ASIAN AMERICANS AND MEDIA**

3 credits.

Examines representations of Asian American in American media using historical, analytical, and critical approaches. Issues of cultural production, identity, race, politics, and gender are linked to examinations of specific media forms.

**Requisites:** Com Arts 347 or So st**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**COM ARTS 448 – MEDIA AND NATIONAL IDENTITY**

3 credits.

Examination of the various roles that film, television, and other media play in creating, challenging, and negotiating national and global identities.

**Requisites:** Com Arts 250 is a prereq for the course.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2013

**COM ARTS 449 – SOUND CULTURES: PODCASTING AND MUSIC**

3 credits.

Sound plays a crucial but understudied role in experiences of media and cultural life. From the mundane sounds of our daily routines to the irresistible refrains of our favorite songs, sound (in its various guises as noise, music, echo, vibration, etc.) is fundamental to communications media and, more broadly, to our perceptions of the world around us. This class will introduce you to the emerging field of sound studies and encourage you to investigate the role sound and music (or lack thereof) play in various communications media. Through audio assignments such as the creation of podcasts, we will learn the basics of digital audio recording and editing software and how to present and distribute audio content via the Internet, specifically as podcasts. By the end of this class, you will have both practical skills for creating digital audio projects and a deeper appreciation for how paying attention to sound leads to unique understandings of history, culture, and media technologies.

**Requisites:** Junior standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**COM ARTS 450 – CULTURAL HISTORY OF BROADCASTING**

3 credits.

Traces the development of broadcasting as a cultural institution, examining the emergence of radio and television within the context of national identity and globalization.

**Requisites:** Com Arts 250 is a prereq for the course.**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**COM ARTS 451 – TELEVISION CRITICISM**

3 credits.

Analysis of selected television programming, interpretation of contemporary television programs, and survey of existing critical approaches.

**Requisites:** Com Arts 351 is a prerequisite for this course.**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 454 – CRITICAL FILM ANALYSIS**

3 credits.

Intensive analysis of selected films, using contemporary critical theories and methods.

**Requisites:** Com Arts 350 Junior Standing**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**COM ARTS 455 – FRENCH FILM**

3 credits.

Survey of French cinema from 1895 to the present. Emphasis on aesthetic trends, film movements, film industry, and cultural context.

**Requisites:** Com Arts 350 or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 456 – RUSSIAN AND SOVIET FILM**

3 credits.

Survey of Russian and Soviet cinema from the pre-Revolutionary era to the present. Works by major filmmakers will be viewed and discussed in the context of cultural politics.

**Requisites:** COM ARTS 350 or coursework in Russian area studies**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**COM ARTS 458 – GLOBAL MEDIA CULTURES**

3 credits.

Analysis of media systems, practices and uses from a global perspective.

**Requisites:** Com Arts 351 is a prerequisite for this course.**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2013**COM ARTS 459 – NEW MEDIA AND SOCIETY**

3 credits.

Explores political, economic and cultural relationships between new media of communication and society, including issues of history, race, gender, class, globalization, national identity and everyday life.

**Requisites:** COM ARTS 346**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014

**COM ARTS/ITALIAN 460 – ITALIAN FILM**

3 credits.

General survey of Italian film and of the relationship between film and the other arts. Consideration of film theory and of the Italian and European socio-political situation in the context of film production.

**Requisites:** Stdts taking crse for cr toward Ital major must have Ital 204 or equiv; all other stdts must have Com Arts 350 or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**COM ARTS 461 – GLOBAL ART CINEMA**

3 credits.

In the wake of World War Two, European directors began making films that employed location shooting, ambiguity, psychological realism, and unfamiliar stylistic flourishes. Such films drew on literary modernism, experimenting with time shifting, extreme duration, subjectivity, and reflexivity. "Art cinema," as it came to be called, is now the dominant storytelling mode of the contemporary film festival circuit and constitutes a robust alternative to mainstream genre cinema. This course explores art cinema from a variety of national and transnational contexts, analyzing its narratives, styles, and cultural contexts. It investigates the work of directors from the first generation of art cinema, including Michelangelo Antonioni, Robert Bresson, Ingmar Bergman, and Agn s Varda, and more recent work by Aki Kaurisma ki, Abbas Kiarostami, Wong Kar-wai, and Claire Denis.

**Requisites:** COM ARTS 350

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**COM ARTS 462 – AMERICAN INDEPENDENT CINEMA**

3 credits.

History of American independent narrative cinema with particular attention to the impact various art movements and subcultures have had on its development over the past 60 years.

**Requisites:** Com Arts 350

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**COM ARTS 463 – AVANT-GARDE FILM**

3 credits.

This course examines the history and aesthetics of avant-garde/experimental film from its beginnings in the early 1920s to the present. Key aesthetic programs are studied with attention to their relation to adjacent movements in art and critical theory.

**Requisites:** Com Arts 350 354

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**COM ARTS 465 – EDITING AND POST-PRODUCTION FOR VIDEO AND FILM**

4 credits.

Students focus on the theory and practice of video editing and post-production. They gain a thorough understanding of narrative editing techniques, color correction, audio post-production and the requisite software. The class discusses the art of post-production and how post-production affects narrative function in moving picture media (including films, music videos, and television). Assignments include editing a short film, color correction, sound editing/mixing and editing half of an assigned feature-length film. Students must complete Com Arts 355 and submit an application in order to be considered for this course.

**Requisites:** Consent of instructor

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COM ARTS 466 – WRITING FOR TELEVISION AND FILM**

3 credits.

Basic introduction to the elements of a successful dramatic screenplay. Particular emphasis placed on story concept, dramatic structure, character development, dialogue, and visual storytelling.

**Requisites:** Com Arts 355 cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**COM ARTS 467 – CINEMATOGRAPHY AND SOUND RECORDING**

4 credits.

Learn the fundamentals of sync-sound moving image production, including cinematography, lighting, sound recording, and production logistics. With an emphasis on dramatic visual storytelling, students will produce five scenes from existing scripts, rotating the positions of director of photography, assistant camera, gaffer, mixer, and boom operator for each script. Additionally, directing, editing, and color grading will be covered, and students will be responsible for casting, location scouting, and set-building in order to successfully produce each scene. Students will leave the course knowing the interworkings of a film crew, the operation of digital cinema technologies, and have a better understanding of visual and aural storytelling aesthetics and techniques. Students must complete Com Arts 355 and submit an application in order to be considered for this course.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COM ARTS 468 – PRODUCING FOR INTERNET TV AND VIDEO**

3 credits.

A laboratory and studio course for producing Internet television and video (which encompasses a wide range of media content, from expensive Netflix and Amazon shows to low-budget YouTube channels). With its focus on "producing" and the role of the producer, the course combines the hands-on production work of writing, shooting, and editing videos with an emphasis on entrepreneurship and the innovation of sustainable business models. Students will work in groups to produce videos across three Internet video genres-music video, comedy short, and commercial. All students will occupy the role of the producer for one of the assignments. Additionally, students will complete a final project that is a business plan for a new Internet TV program or venture. Students must complete COM ARTS 155 or 355 and submit an application in order to be considered for this course.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2017**COM ARTS 469 – INTERDISCIPLINARY STUDIES IN THE ARTS**

1-4 credits.

Guest artists will offer interdisciplinary courses on topics appropriate to their specializations.

**Requisites:** Consent of department**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2013**COM ARTS 470 – CONTEMPORARY POLITICAL DISCOURSE**

3 credits.

Examines themes, genres, and significant instances of contemporary political discourse, as well as issues and concerns that arise in public discussions of political discourse. Case studies and theoretical analyses are considered.

**Requisites:** Junior standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**COM ARTS 472 – RHETORIC AND TECHNOLOGY**

3 credits.

Explore the technologies of rhetoric and the rhetoric of technology's impact on the culture from which it emerges. Collect and apply a number of perspectives on the relationship between technology and society; explore the effect of various technologies on rhetorical practices; investigate the way that technology extends the body's capacity; think through collective affective reactions - such as optimism, panic, and wonder - in response to new technologies; and consider carefully why and how controversies about technology take shape in the public sphere.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**COM ARTS 476 – NATURE OF CRITICISM-THE PUBLIC ARTS OF COMMUNICATION**

3 credits.

A survey of rhetorical criticism methods. Students apply these methods to landmark historical and contemporary texts - from presidential war discourse to women's suffrage rhetoric to timely political debates.

**Requisites:** Junior standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**COM ARTS 478 – RHETORIC AND POWER ON THE INTERNET**

3 credits.

Explores and analyzes Internet communication as a magnifier, transmitter, and limiter of power for both individual people and institutions with special attention to the roles of politics, social issues, and justice. Students use rhetorical analysis to engage in the critical assessment of Internet media content that exerts power in their lives.

**Requisites:** Junior standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2013

**COM ARTS 509 – DIGITAL MEDIA AND POLITICAL COMMUNICATION**

3 credits.

Course examines core questions related to the impacts of digital media (including but not limited to the Internet) on processes of political communication and the health of democratic governance in advanced industrialized democracies.

**Requisites:** Junior standing**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**COM ARTS 513 – TOPICS IN COMMUNICATION ARTS: STUDY ABROAD**

1-6 credits.

A course carried with a UW-Madison study abroad program which has no equivalent on this campus.

**Requisites:** Current reg in a UW-Madison study abroad prgm**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**COM ARTS/FOLKLORE 522 – DIGITALLY DOCUMENTING EVERYDAY COMMUNICATION**

3 credits.

Teaches the use of digital recording technologies, archiving, and analysis of everyday communication and culture. Surveys scholarly approaches to everyday expressive communication.

**Requisites:** Junior standing**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**COM ARTS 525 – MEDIA, DELIBERATION, AND PUBLIC ISSUES**

3 credits.

Theoretical and empirical approaches to both media effects in deliberation and the uses of media as resources by political actors in shaping public issues.

**Requisites:** Com Arts 260 and 325 are prereqs for the course.**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 540 – TELEVISION GENRES**

3 credits.

An examination of a specific television genre, analyzing it as a narrative, economic, cultural, and political entity and exploring its role in perpetuating and/or challenging ideas of what society is or could be.

**Requisites:** Com Arts 250 351; Jr st**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COM ARTS 547 – DIGITAL GAME CULTURES**

3 credits.

An examination of the forms, practices, economies, institutions, politics, and modes of engagement that make digital games an important site of culture and power.

**Requisites:** COM ARTS 250 and (COM ARTS 351 or 346) and junior standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2017**COM ARTS 552 – CONTEMPORARY HOLLYWOOD CINEMA**

3 credits.

An examination of contemporary Hollywood films focusing on the interrelations of cinematic narrative, style, technology, and institutions. It surveys the work of major directors and considers the box office impact of key genres and film cycles. Among the films screened in the course are DIE HARD, TOY STORY, INGLOURIOUS BASTERDS and INCEPTION.

**Requisites:** COM ARTS 350**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 556 – THE AMERICAN FILM INDUSTRY IN THE ERA OF THE STUDIO SYSTEM**

3 credits.

Influences of industrial structure, trade policies, foreign markets and censorship on Hollywood's production practices up to 1948.

**Requisites:** Com Arts 350**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015



**COM ARTS 557 – CONTEMPORARY MEDIA INDUSTRIES**

3 credits.

Analysis of major trends in media industries since the 1970s with special emphasis on conglomeration, globalization, new technologies, and changing modes of production and distribution.

**Requisites:** Prereq: Com Arts 350 or 351**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2015**COM ARTS/JOURN 558 – PUBLIC, COMMUNITY, AND ALTERNATIVE MEDIA**

3 credits.

Examination of media outside the dominant commercial model, especially local and alternative practices, and their cultural role.

**Requisites:** Com Arts 351 is a prerequisite for this course.**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2009**COM ARTS 560 – COMMUNICATION THEORY**

3 credits.

Introduction and survey of contributions of behavioral science and philosophy to a unified theory of communication.

**Requisites:** Com Arts 260 or cons inst**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2013**COM ARTS 562 – THEORIES OF DELIBERATION AND CONTROVERSY**

3 credits.

Examination of theories of deliberation and controversy. Application of theories to public controversies.

**Requisites:** Jr st Com Arts 262 or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**COM ARTS 565 – COMMUNICATION AND INTERETHNIC BEHAVIOR**

3 credits.

The relation of communication processes to interethnic and interracial attitudes and behavior. Social and psychological foundations of interethnic communication and conflict, group identification and communication processes, interpersonal communication and culture, communication about race and ethnicity, mass media content and effects.

**Requisites:** Junior standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**COM ARTS 570 – CLASSICAL RHETORICAL THEORY**

3 credits.

Study of major theories of rhetoric from their origins in ancient Greece to Bacon, including theories of Plato, Aristotle, Cicero, Quintilian, Longinus, St. Augustine, and others.

**Requisites:** Students must have completed two of the following courses: COM ARTS 262, 360, 370, 372, 374, 470, 472, or 562**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**COM ARTS 571 – CONTEMPORARY RHETORICAL THEORY**

3 credits.

Study of contemporary theories of rhetoric and significant conceptual issues in contemporary rhetorical inquiry. Attention to theorists within the field of rhetoric as well as to others who have influenced rhetorical theory.

**Requisites:** Students must have completed two of the following courses: COM ARTS 262, 360, 370, 372, 374, 470, 472, or 562**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2014

**COM ARTS 573 – RHETORIC OF GLOBALIZATION AND TRANSNATIONALISM**

3 credits.

Students are introduced to basic concepts in global and transnational rhetorical studies and provided with the analytic tools to examine discourses about globalization and transnationalism produced by key global actors including transnational corporations, states, global institutions such as the World Bank, media producers, human rights advocates, and activists.

**Requisites:** Junior Standing**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**COM ARTS 574 – RHETORIC OF US IMMIGRATION AND NATURALIZATION**

3 credits.

Students explore U.S. immigration and naturalization rhetoric across various spheres: federal, state, and grassroots. Patterns of immigration and naturalization rhetoric, the tactics different actors use, and the transformations that have taken place since the founding of the U.S. republic are examined.

**Requisites:** Junior standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**COM ARTS 575 – COMMUNICATION IN COMPLEX ORGANIZATIONS**

3 credits.

Examine problem solving within complex organizations. Study communication pitfalls, decision-making biases, and problem-solving blind spots that negatively affect one's ability to communicate. Learn to innovate in teams and make high-quality decisions.

**Requisites:** Junior standing**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**COM ARTS 576 – PRINCIPLES OF RHETORICAL CRITICISM**

3 credits.

Exploration of the nature, scope, and practice of rhetorical criticism. Emphasis upon critical theory and method.

**Requisites:** Students must have completed two of the following courses:

COM ARTS 262, 360, 370, 372, 374, 470, 472, or 562

**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2009**COM ARTS 577 – DYNAMICS OF ONLINE RELATIONSHIPS**

3 credits.

Examines how people form their identities and manage their personal relationships using new communication technologies (social network sites, online dating, video games). Emphasis will be placed on how humans adapt to technology and use it for social purposes. g., Com Arts 361, PSYCH 210, SOC/C&E SOC 360 or Stats 301). Cons inst required for other methods crses.

**Requisites:** Prior crse on research methods in the social sciences (e.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**COM ARTS 605 – DIGITAL STUDIES CAPSTONE**

1 credit.

Students synthesize the material they have learned throughout the Digital Studies certificate program and explore opportunities for professional and personal growth based on their experience. To enroll, students must be in the Digital Studies Certificate student and be seniors.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 608 – SPECIAL TOPICS IN MEDIA AND CULTURAL STUDIES**

3 credits.

Specialized topics and issues in media and cultural studies.

**Requisites:** Varies with topic**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**COM ARTS 609 – SPECIAL TOPICS IN PRODUCTION**

3 credits.

Specialized advanced subject matter in film, video or digital media production.

**Requisites:** Com Arts 355 or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COM ARTS 610 – SPECIAL TOPICS IN RHETORIC AND PUBLIC ADDRESS**

3 credits.

Specialized subject matter of current interest in rhetoric and public address.

**Requisites:** Varies with topic**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016

**COM ARTS 612 – SPECIAL TOPICS IN COMMUNICATION SCIENCE**

3 credits.

Specialized subject matter of current interest in communication theory and research.

**Requisites:** Varies with topic

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2011

**COM ARTS 613 – SPECIAL TOPICS IN FILM**

3 credits.

Specialized topics and issues in film history, theory, and criticism.

**Requisites:** Varies with topic

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**COM ARTS 614 – FIELD EXPERIENCE IN COMMUNICATION**

1 credit.

Application of communication concepts to problems in such professional field settings as business organizations, media firms, political offices and organizations, and governmental agencies. (Does not count toward the 30-credit requirement for undergrad majors in communication arts.)

**Requisites:** Undergrad com arts majors only; apprvl of specific intrnshp design by com arts undergrad advisor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COM ARTS 615 – SECOND FIELD EXPERIENCE IN COMMUNICATION**

1 credit.

Application of communication concepts to problems in such field settings as business organizations, media firms, political offices and organizations, and governmental agencies. (Does not count toward the 30-credit requirement for undergrad majors in communication arts.)

**Requisites:** Com Arts 614; Undergrad com arts majors only; apprvl of specific intrnshp design by com arts undergrad advisor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COM ARTS/HDFS/JOURN 616 – MASS MEDIA AND YOUTH**

3 credits.

Children's and adolescents' use of mass media and mass media effects on them. Particular attention is given to changes in comprehension and other cognitive activities that give insights into media use and effects.

**Requisites:** JOURN 202, COM ARTS 325, HDFS 362, ED PSYCH 320, PSYCH 460, or LSC 251 (or PSYCH 560 prior to Fall 2017)

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COM ARTS/JOURN/LSC 617 – HEALTH COMMUNICATION IN THE INFORMATION AGE**

3 credits.

This course will examine the role of communication in health, how the revolution in information technology has affected health communication, and the assumptions about health information and communication that drive current efforts to use technologies.

**Requisites:** JOURN 565 or equivalent

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COM ARTS 651 – ADVANCED VIDEO PRODUCTION AND DIRECTION**

3 credits.

Remote video production in both documentary and narrative genres.

**Requisites:** Com Arts 355 written cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**COM ARTS/GERMAN 655 – GERMAN FILM**

3 credits.

Important filmmakers from 1910 to the present; their relation to German cultural and social history of the period. For com arts cr. Com Arts 350

**Requisites:** For German cr. one 300 level crse or above; or cons inst.

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**COM ARTS 659 – ADVANCED MOTION PICTURE PRODUCTION WORKSHOP**

4 credits.

A capstone course in digital cinema. Provides students with an immersive experience in the art of visual and aural storytelling. This workshop is structured around the creation of a half-hour finished film, planned and completed as a group, with roles matching those of a professional crew: director, production manager, cinematographer, camera assistant, gaffer, sound designer, art director, and editor. Working with an existing script and using state-of-the-art digital tools, students will gain knowledge in a wide variety of motion-picture production skills. Most importantly, students explore the meanings and nuances of a script, making the artistic choices necessary to bring the story to the screen. Students learn to collaborate as a group, balancing the responsibilities of their role with the needs of their fellow crew and the finished film. At the conclusion of the semester, the class present their completed film in a public, campus screening.

**Requisites:** Consent of Instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**COM ARTS 662 – MEDIA AND CULTURAL THEORY I**

3 credits.

Survey of major theories, scholars, and debates in the field of cultural studies with special emphasis on the Birmingham School. Offers a set of working premises and methods for the study of media and popular culture.

**Requisites:** Sr st cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2010**COM ARTS 663 – MEDIA AND CULTURAL THEORY II**

3 credits.

Studies the diverse ways in which critics have reflected upon mass media since 1900. As a companion to Communication Arts 662, the course eschews cultural studies and instead surveys theories of media from a broad range of related disciplines.

**Requisites:** Sr st cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2011**COM ARTS 664 – CLASSICAL FILM THEORY**

3 credits.

Principal theories of cinema from the silent era to the 1960s.

**Requisites:** Com Arts 350 or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 665 – CONTEMPORARY FILM THEORY**

3 credits.

.A survey and analysis of film theory from the mid-1960s to the present.

**Requisites:** Cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**COM ARTS 667 – HISTORY OF AMERICAN PUBLIC ADDRESS**

3 credits.

Public discourse of selected movements and periods in American history.

**Requisites:** Two of the following: Com Arts 360, 370, 372, 374, 470, 472, 570, 571, 576, or 675**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2013**COM ARTS 671 – COMMUNICATION AND SOCIAL CONFLICT**

3 credits.

Survey of current theory and research on conflict in face-to-face interaction.

**Requisites:** Com Arts 572 or 560 or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**COM ARTS 674 – RHETORICAL ANALYSIS**

3 credits.

Advanced criticism; comparisons of the discourse of diverse types and cultures.

**Requisites:** Jr st Com Arts 476 or 576 or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2008

**COM ARTS 675 – RHETORIC OF WOMEN'S SOCIAL AND POLITICAL DISCOURSE**

3 credits.

This course explores obstacles women have faced throughout American history in their struggle to obtain influence and equality in politics and society. Through the analysis of significant rhetorical texts, it identifies major discursive strategies employed by women and the impact of these strategies.

**Requisites:** Two: Com Arts 360, 370, 372, 374, 470, 472, 570, 571, 576, 667**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2005**COM ARTS 681 – SENIOR HONORS THESIS**

3 credits.

Member of the honors program cons inst

**Requisites:** Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 682 – SENIOR HONORS THESIS**

3 credits.

Member of the honors program cons inst

**Requisites:** Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2015**COM ARTS 691 – SENIOR THESIS**

2-3 credits.

25 GPA and written cons inst

**Requisites:** Sr st 3.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2014**COM ARTS 692 – SENIOR THESIS**

2-3 credits.

**Requisites:** Com Arts 691 written cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**COM ARTS 698 – DIRECTED STUDY**

1-3 credits.

Graded on a Cr/N basis; requires written cons inst

**Requisites:** Jr or Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2016**COM ARTS 699 – DIRECTED STUDY**

1-3 credits.

Graded on a lettered basis; requires written cons inst

**Requisites:** Jr or Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COM ARTS/ENGL 704 – INTELLECTUAL SOURCES OF CONTEMPORARY COMPOSITION THEORY I-CLASSICAL**

3 credits.

Selected issues in the history of rhetoric, concentrating on classical theories of invention, and their importance for contemporary issues in composition theory.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**COM ARTS 760 – ADVANCES IN COMMUNICATION THEORIES**

3 credits.

In-depth review and evaluation of behavioral and social scientific theories of human communication.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 762 – COMMUNICATION RESEARCH METHODS**

3 credits.

Epistemological and methodological principles of behavioral and social scientific research of particular relevance to communication research, including various research designs and modes of observation, casual inferences, and basic hands-on experiences in empirical research.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017



**COM ARTS 768 – THEORETICAL PERSPECTIVES ON PERSUASIVE COMMUNICATION**

3 credits.

Surveys classic and contemporary theory and research on persuasive communication. After explicating "attitude," students will examine the operation of ethos, logos, and pathos, qualities of message structure and style, and social issues relevant to influence processes.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2009**COM ARTS 799 – INDEPENDENT STUDY**

1-3 credits.

Devised by a staff member in collaboration with students.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COM ARTS/HDFS 817 – COUPLE RELATIONSHIPS: THEORY, RESEARCH, AND APPLICATION**

3 credits.

This course will review current research on the nature, dynamics, and developmental course of couple relationships and explore the implications of this scientific knowledge for prevention/intervention programs and policy. Contemporary theories and empirical research will be examined.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2013**COM ARTS/JOURN/LSC 831 – PSYCHOLOGY OF ENTERTAINMENT MEDIA**

3 credits.

This course is designed to provide an in-depth look into entertainment media, including its effects on individuals, social groups, and society. The focus on entertainment content is across platforms - from "mass" to social media. Emphasis will be paid to psychological, individual-level effects.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**COM ARTS 902 – FILM COLLOQUIUM**

1 credit.

Studies in advanced research in film history, theory and criticism.

**Requisites:** Grad st in com arts**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COM ARTS 903 – MEDIA AND CULTURAL STUDIES COLLOQUIUM**

1 credit.

Current research in cultural studies, audience effects, broadcast regulation, history of broadcasting and comparative national systems.

**Requisites:** Grad st in com arts**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COM ARTS 904 – COMMUNICATION SCIENCE COLLOQUIUM**

1 credit.

Social scientific approaches to the study of interpersonal communication and media effects.

**Requisites:** Grad st in com arts**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COM ARTS 905 – RHETORIC COLLOQUIUM**

1-3 credits.

Advanced research in rhetorical theory and criticism, and in the history of public address.

**Requisites:** Grad st in com arts with major emphasis in rhetoric, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**COM ARTS 940 – SEMINAR: MEDIA, CULTURE, AND THE PUBLIC SPHERE**

2-3 credits.

Analysis and critique of public sphere theories of the media, pre- and post-Habermas, including concepts of citizenship and nation, media and democracy, globalization and cultural hierarchies. Implications for media policy and structures.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2012**COM ARTS 950 – SEMINAR-RADIO TELEVISION FILM**

2-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**COM ARTS 955 – MEDIA HISTORY AND HISTORIOGRAPHY**

3 credits.

A seminar on post-structuralist historical theory, historiographical methods, and issues in historiography for students of media history. Introduction to archival research.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2011**COM ARTS 958 – SEMINAR IN FILM HISTORY**

2-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COM ARTS 960 – SEMINAR IN FILM THEORY**

2-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2010**COM ARTS 966 – SEMINAR-MODERN RHETORICAL THEORY**

2-3 credits.

**Requisites:** Grad st; Com Arts 570 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**COM ARTS 967 – SEMINAR-PROBLEMS IN COMMUNICATION AND PUBLIC ADDRESS**

2-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**COM ARTS 969 – SEMINAR: CONTEMPORARY RHETORICAL THEORY**

2-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COM ARTS 970 – SEMINAR IN COMMUNICATION SCIENCE**

3 credits.

A critical review of theoretical developments in social scientific studies of communication and its psychological and/or social impact. Topic varies with instructor.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**COM ARTS 976 – SEMINAR IN RHETORICAL CRITICISM**

2-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COM ARTS 990 – RESEARCH AND THESIS**

1-9 credits.

Independent research and writing under the supervision of a staff member.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## COMMUNICATION SCIENCES AND DISORDERS (CS&D)

**CS&D 110 – INTRODUCTION TO COMMUNICATIVE DISORDERS**

3 credits.

A survey of the scientific basis of normal and disordered communication; covers speech, hearing, and language.

**Requisites:** Open to Fr**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CS&D 201 – SPEECH SCIENCE**

3 credits.

Anatomy and physiology of the speech production mechanism; acoustic characteristics of the speech signal.

**Requisites:** None**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**CS&D 202 – NORMAL ASPECTS OF HEARING**

3 credits.

Provides students with background in the physical acoustics of sound, the anatomy and physiology of the auditory system, and the psychology related to hearing, known as psychoacoustics.

**Requisites:** None**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CS&D 210 – NEURAL BASIS OF COMMUNICATION**

3 credits.

Considers the neural basis for communicative behaviors. Provides understanding of the anatomy, physiology, and physiopathy of the central and peripheral nervous systems as they relate to normal and disordered communication.

**Requisites:** Sophomore standing or consent of instructor**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**CS&D 240 – LANGUAGE DEVELOPMENT IN CHILDREN AND ADOLESCENTS**

3 credits.

This course covers communication and language development from infancy to adulthood.

**Requisites:** None**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CS&D 303 – SPEECH ACOUSTICS AND PERCEPTION**

3 credits.

Detailed examination of the acoustic properties of the speech signal within the source-filter theory of speech production. Theories of speech perception pertaining to phoneme and word recognition are presented and discussed.

**Requisites:** CS&D 201 and 202**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CS&D 315 – PHONETICS AND PHONOLOGICAL DEVELOPMENT**

3 credits.

Introduction to the international phonetic alphabet and articulatory phonetics. Overview of typical and atypical phonological development.

**Requisites:** CS&D 201, 240**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CS&D 318 – VOICE, CRANIOFACIAL AND FLUENCY DISORDERS**

3 credits.

The material in this course will provide a basis for understanding the communication problems of individuals with voice disorders, orofacial anomalies, and fluency disorders.

**Requisites:** CS&D 201, 202, and 240**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**CS&D 320 – INTRODUCTION TO AUDIOLOGY**

3 credits.

Hearing science, disorders and evaluation, conservation, and aural rehabilitation.

**Requisites:** CS&D 202**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CS&D 371 – PRE-CLINICAL OBSERVATION OF CHILDREN AND ADULTS**

3 credits.

This writing-intensive course is the first course in the clinical education sequence. It emphasizes clinical writing, group participation, and observation of video and live treatment sessions to develop and improve observational skills related to communication behaviours and clinical teaching. (WI).

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**CS&D 390 – PRACTICUM IN COMMUNICATIVE DISORDERS**

2 credits.

A writing-intensive practicum working with children from diverse cultures who are at risk for speech, language, and literacy challenges. 0, Com Dis 315, 371, 440; 25 hrs of clin observation cons inst

**Requisites:** Jr st; com dis major; overall GPA 3.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2011

**CS&D 424 – SIGN LANGUAGE I**

2 credits.

Manual alphabet, numbers, and 300 basic signs in both American Sign Language (ASL) and Manually Coded English (MCE) systems. Class will emphasize words and sign skill for clinic/schools.

**Requisites:** Sophomore standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CS&D 425 – AUDITORY REHABILITATION**

3 credits.

Topics include scope of practice, current approaches to perception, production and conversational fluency development as they apply in auditory rehabilitation treatment in home, school, work and social settings.

**Requisites:** CS&D 201, 202, and 320

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CS&D 434 – SIGN LANGUAGE II**

2 credits.

Advanced beginner's course emphasizing instruction and practice at a conversational level using American Sign Language (ASL) and Pidgin Signed English (PSE). Fingerspelling, short story comprehension and signing practice are the focus of this class.

**Requisites:** CS&D 424

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**CS&D 440 – CHILD LANGUAGE DISORDERS, ASSESSMENT AND INTERVENTION**

3 credits.

Language differences and disorders in various populations are covered, as well as means of assessment and intervention.

**Requisites:** CS&D 240

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CS&D 455 – TOPICS IN COMMUNICATIVE DISORDERS**

1-3 credits.

Lecture-discussion with or without laboratory component on current topics in normal aspects of communication or identification, treatment and research in speech-language pathology and audiology.

**Requisites:** Open to all Undergrads

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

**CS&D 481 – UNDERGRADUATE JUNIOR HONORS**

3 credits.

A writing-intensive introduction to research methodology in Communication Sciences and Disorders, emphasizing participant selection criteria, experimental design and methodology, data collection, and data analysis, leading to the design and future implementation of an independent research project. Activities include written and oral critiques of published research, written summaries of oral research presentations, and composition of an individual research proposal.

**Requisites:** Admission to (or eligibility for) the Honors Program in Communication Sciences and Disorders

**Course Designation:** Gen Ed - Communication Part B

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CS&D 503 – NEURAL MECHANISMS OF SPEECH, HEARING AND LANGUAGE**

3 credits.

Basic neuroanatomical and neurophysiological mechanisms underlying the communication process. Neuropathologies and their associated communication disorders.

**Requisites:** Grad st in com dis or undergrad biol major with neurobiol option, or cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CS&D 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Sr st cons of dept hrs adv

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CS&D 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Sr st cons of dept hrs adv

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CS&D 698 – DIRECTED STUDY**

1-6 credits.

Cr/N. Graded on a Cr/N basis; requires cons inst

**Requisites:** Jr or Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 1995**CS&D 699 – DIRECTED STUDY**

1-6 credits.

Program of reading devised by a staff member in collaboration with the student. Graded on a lettered basis; requires cons inst

**Requisites:** Jr or Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CS&D 702 – RESEARCH METHODS IN COMMUNICATION SCIENCES AND DISORDERS**

3 credits.

This course will introduce learners to research methods in communication sciences and disorders with the goal of producing clinicians and clinician-scientists who: (1) are conversant in and can use scientific principles in their daily lives research, and clinical practice; (2) evaluate scientific evidence as disseminated through multiple channels; (3) find and store research findings efficiently for use in clinical practice or research studies; and (4) understand and implement ethical use of human participants, animal subjects and responsible conduct of research principles in their careers.

**Requisites:** Enrollment in the clin speech-lang pathology masters program or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**CS&D 703 – LANGUAGE AND LEARNING DISORDERS OF CHILDREN**

3 credits.

Theoretical concepts of symbolic disorders with emphasis on variables which interfere with language learning and function.

**Requisites:** Com Dis 440 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CS&D 704 – ACQUIRED LANGUAGE AND COGNITIVE-COMMUNICATION DISORDERS IN ADULTS**

3 credits.

Intervention for adults with acquired aphasia and cognitive-communication disorders, including principles of evaluation and treatment.

**Requisites:** Com Dis 503**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CS&D 705 – MOTOR SPEECH DISORDERS/AUGMENTATIVE AND ALTERNATIVE COMMUNICATION**

3 credits.

The nature and classification of motor speech disorders, and techniques and methods which provide non-speaking children and adults with effective means of interaction and communication.

**Requisites:** CS&D 503 and CS&D 703**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CS&D 706 – MANAGEMENT AND ASSESSMENT OF VOICE DISORDERS**

3 credits.

Techniques applicable to children and adults with disorders of voice, both functional and organic in origin. Lecture plus lab or observation.

**Requisites:** Com Dis 318 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CS&D 707 – SWALLOWING DISORDERS**

2-3 credits.

Presents information on the anatomy, physiology, and neural bases of normal swallowing, the various diseases that can affect swallowing function, the nature of swallowing dysfunction and ways to assess it, and treatment options for patients with swallowing disorders.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CS&D 708 – FLUENCY AND PHONOLOGICAL DISORDERS**

3 credits.

An advanced course concerning the etiology, definition, diagnosis, and management of fluency and phonological disorders in children and adults.

**Requisites:** 2nd yr st in masters prog in speech-lang pathology**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**CS&D 709 – LANGUAGE DEVELOPMENT AND DISORDERS IN SCHOOL AGE POPULATIONS: SCHOOL METHODS AND PROCEDURES**  
3 credits.

This course will review contemporary literature relating to the language development and disorders of school age children and adolescents. Emphasis is on a description of disorders, assessment techniques, and school methods and procedures. The course addresses UW-Madison Teacher Education Standards; WI Rules and Statutes, Teaching Standards stipulated in PI 34.

**Requisites:** CS&D 703

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CS&D 712 – INTRODUCTION TO CLINICAL METHODS**  
1 credit.

This is the first clinical methods course for entering speech-language pathology graduate students. The course provides learning opportunities to increase students' knowledge and skills related to assessment and intervention of persons with communication disorders. It is a forum for discussion, reflection and practicing clinical skills.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**CS&D 713 – INTRODUCTION TO MEDICAL SPEECH PATHOLOGY**  
1 credit.

The course content focuses on methods for participating in medical site speech pathology including professionalism, documentation, insurance, ethics, and counseling.

**Requisites:** Com Dis 503, 702, 707, 708, and 790

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CS&D 714 – SCHOOL METHODS AND PROCEDURES IN SPEECH-LANGUAGE PATHOLOGY**  
1 credit.

The course content focuses on evidence-based practices, assessment and evaluation frameworks, and clinical methods related to school services in speech-language pathology.

**Requisites:** Com Dis 503, 702, 707, 708, and 790

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**CS&D 752 – CAPSTONE IN COMMUNICATION SCIENCES AND DISORDERS: INTEGRATION OF CLINICAL AND RESEARCH METHODS**  
3 credits.

Designed to ensure students (1) can use scientific principles in their daily lives and clinical practice; (2) can evaluate scientific evidence as disseminated through multiple channels for use in research and clinical practice; (3) can understand and apply parallel modes of thinking in clinical practice and research.

**Requisites:** CS&D 705, 706, 707, 708, 709

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CS&D 790 – PRACTICUM IN COMMUNICATIVE DISORDERS**  
1-5 credits.

Supervised experience with persons manifesting communicative problems. Evaluation, rehabilitation, and conservation of hearing, language, and speech disorders in various clinical settings. Register for only 1 cr; Clinical Director authorizes any additional cr; sites on/off campus.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CS&D 799 – INDEPENDENT STUDY**  
1-6 credits.

See description for Com Dis 999.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CS&D 805 – PROFESSIONAL ISSUES: DIVERSITY AND MULTICULTURAL POPULATIONS**  
1 credit.

Evaluation and management of persons with communication disorders across diverse cultural, personal values and beliefs.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**CS&D 806 – PROFESSIONAL ISSUES: MEDICAL ISSUES**  
1 credit.

Evaluation and management of persons with communication disorders within a medical setting. Information regarding various medical settings, ethics, functional goals, and documentation (e.g. billing, reporting, etc.).

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017



**CS&D 816 – ACOUSTICAL PHONETICS**

3 credits.

For department doctoral students. Acoustic aspects of speech production. Lecture plus lab.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2007

**CS&D 832 – PEDIATRIC AUDIOLOGY**

3 credits.

Study of normal physical, social, cognitive, speech and language and auditory development in children, the causes and effects of childhood hearing loss, hearing screening and the principles of early intervention, and the behavioral and objective assessment of hearing in children.

**Requisites:** Grad st cons inst, Com Dis 850, 851, 852, 858

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CS&D 833 – OCCUPATIONAL AUDIOLOGY**

2 credits.

Consideration of principles and issues regarding the effects of noise on people, of federal and state regulation of workplace noise, and of the practical aspects of hearing conservation for those exposed to occupational noise, non-occupational noise, or both.

**Requisites:** Grad st, Com Dis 801,802, 821

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**CS&D 834 – COUNSELING IN AUDIOLOGY**

2 credits.

**Requisites:** Grad st, Com Dis 821, 823, 832

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CS&D 835 – CLINICAL RESEARCH METHODS**

3 credits.

Critical analysis of research in speech-language pathology and audiology including theoretical support, research design, statistical levels of measurement, methods of reporting research results, and drawing conclusions from the results. Students encouraged to pursue research interests.

**Requisites:** Grad st, cons inst, Com Dis 850, 851, 852, 854

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CS&D 836 – PEDIATRIC HABILITATION/REHABILITATION**

3 credits.

Study of the principles and techniques of intervention with hearing impaired children, including the selection and fitting of amplification, the effect of hearing impairment on speech perception, production, and language, communication and educational options, and the re/habilitation of communication skills.

**Requisites:** Grad st, cons inst, Com Dis 850, 851, 852, 856, 832, 863

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CS&D 837 – AUDITORY AND VESTIBULAR PATHOLOGIES I**

2 credits.

Survey of the most common peripheral auditory system pathologies and their presentation in the auditory evaluation.

**Requisites:** Grad st, cons inst, Com Dis 850, 851, 852, 856, 858

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**CS&D 845 – THE HUMAN BALANCE SYSTEM: STRUCTURE, ASSESSMENT, AND REHABILITATION**

2 credits.

Study of human balance function with emphasis on the vestibular system, including neurophysiology, testing, and rehabilitation. Clinical experience in electronystagmography (ENG) and videonystagmography (VNG), analysis of results, familiarization with rotational and posturography tests, and treatment techniques are included.

**Requisites:** Grad st, cons inst, Com Dis 850, 851, 852, 860, 862

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CS&D 846 – THE HUMAN BALANCE SYSTEM: LABORATORY**

1 credit.

The focus will be on training the student to perform and analyze the results of electronystagmography (ENG) and videonystagmography (VNG) examinations, and practice the canalith repositioning maneuver. If possible, students will observe the administration of rotational and posturography tests.

**Requisites:** Grad st, cons inst, Com Dis 850,851, 852, 860, 862, con reg in 845

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**CS&D 849 – GERIATRIC AUDIOLOGY: DIAGNOSIS AND REHABILITATION**  
2 credits.

A study of basic theories of aging, anatomical and physiological effects of aging on the auditory and balance systems, and resulting communication difficulties associated with aging. The course emphasizes both the diagnostic and rehabilitative challenges in working with elderly patients.

**Requisites:** Grad st, cons inst, Com Dis 850, 851, 852, 856, 862

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CS&D 850 – HEARING SCIENCE I: BASIC ACOUSTICS AND PSYCHOACOUSTICS**  
3 credits.

Study of anatomy and physiology of the human auditory system, with an emphasis on the peripheral system. Basic concepts in psychoacoustics are discussed with reference to the normal and pathological auditory systems.

**Requisites:** Grad st cons inst, Com Dis 202, 320

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CS&D 851 – HEARING SCI II: ADVANCED TOPICS IN HEARING AND BALANCE**  
3 credits.

Introduction to advanced concepts, theories, and experimental procedures related to psychophysics, anatomy and physiology of the auditory and vestibular systems. The focus is on central mechanisms of hearing and balance, and the role that these processes play in psychophysical phenomena.

**Requisites:** Grad st, cons inst, con reg in Com Dis 850

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**CS&D 852 – HEARING ASSESSMENT**  
2 credits.

Familiarizes students with the bases, purpose, rationale and procedures for tests of auditory function, the importance of understanding auditory function and available evidence as bases for test selection and the importance of the objective(s) of diagnostic procedures.

**Requisites:** Grad st con reg in Com Dis 853

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CS&D 853 – HEARING ASSESSMENT LABORATORY**  
1 credit.

Familiarize students with the procedures for tests of auditory function, the importance of understanding auditory function and available evidence as bases for test selections and the importance of realizing the objective(s) forming the bases of diagnostic procedures.

**Requisites:** Con reg in Com Dis 852

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CS&D 854 – ELECTROACOUSTICS AND INSTRUMENT CALIBRATION**  
2 credits.

Systematic review of physical concepts of acoustics and electronics underpinning the practice of audiology, as well as formally adopted standards by which clinical environments, instruments and procedures are calibrated.

**Requisites:** Grad st, cons inst con reg in Com Dis 855

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CS&D 855 – ELECTROACOUSTICS AND CALIBRATION LABORATORY**  
1 credit.

Laboratory experience in electroacoustic measurement and calibration of examination spaces, test equipment, and amplification systems pertinent to the practice of audiology.

**Requisites:** Grad st, con reg in Com Dis 854

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CS&D 856 – AMPLIFICATION SYSTEMS I**  
2 credits.

Study of the components and electroacoustic characteristics of hearing aids and assistive listening devices, as well as approaches for selecting the devices and verifying their fitting.

**Requisites:** Grad st, cons inst, Com Dis 850, 851, 852, 853, 891, con reg in Com Dis 857

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CS&D 857 – LABORATORY IN AMPLIFICATION SYSTEMS I**  
1 credit.

Testing, fitting, and repairing hearing aids, performing basic hearing aid tests and repairs, proper cerumen removal and ear impression techniques, and using appropriate strategies in fitting. Electroacoustic evaluation and use of probe microphone measures in hearing aid fitting.

**Requisites:** Grad st, cons inst, Com Dis 850, 851, 852, 853, con reg in 856

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CS&D 858 – PHYSIOLOGICAL ASSESSMENT IN AUDIOLOGY I**

2 credits.

Study of concepts and procedures physiological assessment of the auditory system, with emphasis on otoacoustic emissions and auditory brainstem responses. Clinical applications and case studies integrate these recordings with behavioral assessment of the auditory system.

**Requisites:** Grad st, cons inst, Com Dis 850, 851, 852, con reg in 859

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CS&D 859 – LABORATORY IN PHYSIOLOGICAL ASSESSMENT OF THE AUDITORY SYSTEM I**

1 credit.

Laboratory experience in the procedures and interpretation of physiological assessment of the auditory system, with the major emphasis on otoacoustic emissions and the auditory brainstem response.

**Requisites:** Grad st, cons inst, con reg in Com Dis 858

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CS&D 860 – PHYSIOLOGICAL ASSESSMENT IN AUDIOLOGY II**

2 credits.

Advanced study of physiological measures used by audiologists in threshold and diagnostic evaluations, including acoustic immittance, middle and long latency auditory evoked potentials, and P300, and MMN. Course includes an introduction to evaluation of the balance system.

**Requisites:** Grad st, cons inst, Com Dis 850, 851, 852, 853, 858, 859, con reg in 861

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CS&D 861 – LABORATORY IN PHYSIOLOGICAL ASSESSMENT OF THE AUDITORY SYSTEM II**

1 credit.

Laboratory experience in objective measures used by audiologists for threshold and diagnostic evaluations, including acoustic immittance, middle and long latency auditory evoked potentials, P300, and MMN. Demonstrations, projects, and case studies prepare students to administer and interpret these tests.

**Requisites:** Grad st, cons inst, Com Dis 850, 851, 852, 853, con reg in 860

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CS&D 862 – AUDITORY AND VESTIBULAR PATHOLOGIES II**

3 credits.

Major disorders of the auditory and vestibular systems, with an emphasis on differential diagnosis of disorders of the endorgans and neural systems and multisystem disorders. Casual factors, treatment, prognosis, and case studies are included.

**Requisites:** Grad st, cons inst, Com Dis 850, 851, 852, 858, 837

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CS&D 863 – IMPLANTABLE AUDITORY PROSTHESES**

2 credits.

The audiological management of severe to profound hearing loss using implantable auditory prostheses. This course will focus on cochlear implants, and will also provide an introduction to the auditory brainstem implant.

**Requisites:** Grad st, cons inst, Com Dis 850, 851, 852, 832, 856

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CS&D 864 – AUDITORY PROCESSING DISORDERS**

2 credits.

A study of auditory processing disorders in children and adults. This course will cover aspects of a multidisciplinary assessment of auditory processing and the variety of treatment methods.

**Requisites:** Grad st, cons inst, Com Dis 850, 851, 852, 832

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**CS&D 865 – PRACTICE MANAGEMENT**

2 credits.

Consideration of non-profit and for-profit practice models with emphasis on organizational structure, legal and tax implications, financial performance, policies and practices of personnel management, marketing strategies, risk management and professional ethics.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CS&D 866 – AMPLIFICATION SYSTEMS II**

2 credits.

Strategies for fitting hearing aids, including selection and recommendation, use of prescription gain formulas, and verification of gain. Considerations in geriatric and pediatric hearing aid fitting and ethical issues. Basic techniques in determining patient satisfaction with hearing aids.

**Requisites:** Grad st, cons inst, Com Dis 850, 851, 852, 854, 856

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CS&D 867 – SCHOOL METHODS FOR AUDIOLOGISTS**

1 credit.

Designed to fulfill Wisconsin's Department of Public Instruction (DPI) licensing requirements for audiologists. This course will help students apply their knowledge and skills in assessment and intervention of hearing related disorders to the public school setting. D. student or cons inst

**Requisites:** Au.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CS&D 891 – CLERKSHIP IN AUDIOLOGY I**

1-3 credits.

An introductory, first year, practicum focusing on the acquisition of beginning skills in both screening and diagnostic audiology. It provides initial training in the use of audiometric instruments and software, patient interactions, and reporting procedures.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CS&D 892 – CLERKSHIP IN AUDIOLOGY II**

1-3 credits.

This second year clerkship focuses on the physiologic assessment of the vestibular and the peripheral and central auditory systems. It also provides continued development of skills in the assessment of hearing and the implementation of treatment plans across all ages.

**Requisites:** Com Dis 891

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CS&D 893 – CLERKSHIP IN AUDIOLOGY III**

1-4 credits.

This third year clerkship provides opportunities to practice skills in settings outside of the university clinics. The goal is to advance all skills to the developing level so that the student can perform assessments and treatment with less supervision.

**Requisites:** Com Dis 892

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CS&D 894 – EXTERNSHIP IN AUDIOLOGY**

2-4 credits.

The externship year continues development of skills in assessment of hearing and implementation of treatment plans across all ages. The goal is to develop skills to the mastery level where the student can perform competently with a minimum of supervision.

**Requisites:** Com Dis 893

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CS&D 899 – CAPSTONE STUDY IN AUDIOLOGY**

1-3 credits.

Independent work on a capstone project under the supervision of a faculty member.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CS&D 900 – SEMINAR-SPEECH SCIENCE**

2-3 credits.

Focus varies with staff. Various aspects of physiological and acoustic phonetics and of speech perception.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CS&D 913 – SEMINAR-PROBLEMS IN VOICE DISORDERS**

1-3 credits.

Symptomatology, etiology, diagnosis, and treatment of voice disorders with emphasis on current research procedures and findings and consideration of special problems.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**CS&D 921 – SEMINAR-PROBLEMS IN AUDIOLOGY**

1-3 credits.

Current interests in areas of auditory evaluation, pathology or rehabilitation.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CS&D 945 – SEMINAR: LANGUAGE AND COGNITION**

2-3 credits.

Relation of cognitive development to normal and deviant language acquisition and performance. Critical review of theoretical approaches and experimental data.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**CS&D 990 – RESEARCH AND THESIS**

1-12 credits.

Under the supervision of a staff member.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CS&D 999 – INDEPENDENT STUDIES**

1-3 credits.

Creative project designed by the student and supervised by staff.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**COMMUNITY AND ENVIRONMENTAL SOCIOLOGY (C&E SOC)**

**C&E SOC 1 – COOPERATIVE EDUCATION/CO-OP IN COMMUNITY AND ENVIRONMENTAL SOCIOLOGY**

1 credit.

Full-time off-campus work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career. Students receive credit only for the term in which they are actively enrolled and working. The same work experience may not count towards credit in CE Soc 399.

**Requisites:** So st, and consent of supervising instructor and academic advisor.

**Repeatable for Credit:** Yes, unlimited number of completions

**C&E SOC/AGROECOL/AGRONOMY/ENTOM/ENVIR ST 103 – AGROECOLOGY: AN INTRODUCTION TO THE ECOLOGY OF FOOD AND AGRICULTURE**

3 credits.

Agroecology has blossomed across the world in recent decades as not only a science, but also a practice, and a movement. This course will challenge students to employ the multiple disciplines and perspectives that Agroecology affords to analyze our agricultural and food systems within a broader context of dynamic social and ecological relationships.

**Requisites:** None

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**C&E SOC/SOC 140 – INTRODUCTION TO COMMUNITY AND ENVIRONMENTAL SOCIOLOGY**

3 credits.

Sociological examination of the linkages between the social and biophysical dimensions of the environment. Key topics include community organizing, local food systems, energy transitions, environmental justice, resource dependence, and sustainable development. Gateway to advanced courses in sociology.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**C&E SOC/SOC 210 – SURVEY OF SOCIOLOGY**

3-4 credits.

Introduction to the field of American sociology, its subfields and specialized areas of research, theoretical traditions and research methods. Gateway to advanced courses in sociology.

**Requisites:** Satisfied Communications A requirement; not open to students who have taken SOC 181 or CE SOC/SOC/C&E SOC 211

**Course Designation:** Gen Ed - Communication Part B

Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**C&E SOC/SOC 211 – THE SOCIOLOGICAL ENTERPRISE**

3 credits.

Basic principles and definitions of sociology. Readings and discussion of the perspectives of sociology, the individual and society, groups and social process, stratification, organizations and power, demography, and social change. Gateway to advanced courses in sociology.

**Requisites:** Not open to students who have taken SOC 181 or CE SOC/SOC/C&E SOC 210

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**C&E SOC/GEN&WS/SOC 215 – GENDER AND WORK IN RURAL AMERICA**  
3 credits.

Sociological dimensions of men's and women's work in nonmetropolitan areas of the United States. Examines gender divisions of "work" in its fullest sense: paid work in formal and informal economies, self-employment, and nonmarket work such as housework.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**C&E SOC/SOC 222 – FOOD, CULTURE, AND SOCIETY**

3 credits.

Social and cultural dimensions of the production, preparation, and consumption of food. Uses historical and cross-cultural analytical frameworks. Treats a wide variety of topics including pre-capitalist food systems, hunger, vegetarianism, sustainable agriculture, food and gender, genetic engineering.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**C&E SOC/HIST SCI 230 – AGRICULTURE AND SOCIAL CHANGE IN WESTERN HISTORY**

3 credits.

Agricultural practices and social history from prehistoric times to the present. Topics include origins of agriculture, feudalism, agriculture in the Industrial Revolution, farming in America, and the consequences of the Green Revolution.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**C&E SOC/SOC 245 – TECHNOLOGY AND SOCIETY**

3 credits.

Students are introduced to a wide range of work on technology, the social forces shaping its development, and social impacts of its adoption. Students are encouraged to examine their assumptions about technology and its relationship to society.

**Requisites:** Open to Fr

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**C&E SOC/F&W ECOL/SOC 248 – ENVIRONMENT, NATURAL RESOURCES, AND SOCIETY**

3 credits.

Introduces the concerns and principles of sociology through examination of human interaction with the natural environment. Places environmental issues such as resource depletion, population growth, food production, environmental regulation, and sustainability in national and global perspectives.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**C&E SOC/AFROAMER/ANTHRO/GEOG/HISTORY/LACIS/POLI SCI/SOC/SPANISH 260 – LATIN AMERICA: AN INTRODUCTION**

3-4 credits.

Latin American culture and society from an interdisciplinary perspective; historical developments from pre-Columbian times to the present; political movements; economic problems; social change; ecology in tropical Latin America; legal systems; literature and the arts; cultural contrasts involving the US and Latin America; land reform; labor movements; capitalism, socialism, imperialism; mass media.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**C&E SOC 289 – HONORS INDEPENDENT STUDY**

1-2 credits.

Inter-Ag 288

**Requisites:** Enrolled in the CALS Honors Program Sophomore or Junior standing.

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**C&E SOC 299 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Open to Freshmen, Sophomore or Junior standing written consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**C&E SOC/A A E/SOC 340 – ISSUES IN FOOD SYSTEMS**

3-4 credits.

With primary emphasis on the U.S., the course covers social, economic and biological dimensions of food systems. Using classroom and community experience, the course combines academic approaches with practitioner knowledge. A community project is required.

**Requisites:** SOC/C&E SOC 140, CE SOC/SOC 181, 210, or 211

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**C&E SOC/SOC 357 – METHODS OF SOCIOLOGICAL INQUIRY**

3-4 credits.

Scientific methods in the study of society; procedures for testing sociological theory: problem definition, hypothesis construction, collection and evaluation of data. Practical experience conducting small research projects. Should be taken as early as possible by students considering a major in Sociology. Prior statistics not required. Gateway to advanced courses in sociology.

**Requisites:** Not open to students who have taken CE SOC/SOC 358

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**C&E SOC/SOC 360 – STATISTICS FOR SOCIOLOGISTS I**

4 credits.

Presentation of sociological data; descriptive statistics; probability theory and statistical inference; estimation and tests of hypotheses; regression and correlation and the analysis of contingency tables; lectures and lab. Gateway to advanced courses in sociology. It is recommended that students take SOC/C&E SOC 357 prior to taking this course. Not open to students who have taken Soc 359

**Requisites:** Satisfied Quantitative Reasoning (QR) A requirement.

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**C&E SOC/SOC 361 – STATISTICS FOR SOCIOLOGISTS II**

3 credits.

Applied linear regression modeling for social scientists. Bivariate and multiple regression, dummy variables, interactions, nonlinear relationships, indirect effects and omitted variable bias, outliers, heteroskedasticity, and multicollinearity; associated diagnostics and corrections. Use of Stata and/or SAS for dataset creation and analysis. Lectures and lab. Sophomore standing, and Soc/Community Environmental SOC/C&E SOC 360 or equivalent

**Requisites:** Sophomore standing.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Honors - Accelerated Honors (!)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**C&E SOC/SOC 365 – DATA MANAGEMENT FOR SOCIOLOGICAL RESEARCH**

3-4 credits.

Understanding the structure of different types of social scientific data, techniques for data evaluation, cleaning, documentation and visual display, merging data from multiple sources, restructuring data for analysis.

**Requisites:** SOC/C&E SOC/SOC 360, PSYCH 210, PSYCH 280, GEN BUS 303, STAT 301, ECON 310, STAT/MATH/STAT 310, GEOG 360, or POLI SCI 551

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**C&E SOC 375 – SPECIAL TOPICS**

1-4 credits.

Specialized topics in community and environmental sociology. In depth investigation into the sociological aspects of a variety of community and environmental issues, such as globalization, climate change, social and environmental sustainability, technology.

**Requisites:** Consent of instructor

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**C&E SOC/POP HLTH/SOC 380 – CONTEMPORARY POPULATION PROBLEMS FOR HONORS**

3 credits.

This course is designed to identify, examine the nature and evaluate the evidence regarding key population problems affecting modern societies in the developed and developing world. The course emphasizes the development of demographic models as a tool to frame, define and investigate these problems. Examples of problems studied include: relations between population growth and environment, population growth and socioeconomic development, population and emergence of new diseases.

**Requisites:** Honors, and Soc/Community Environmental SOC/C&E SOC 360 or equivalent or consent of instructor

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**C&E SOC 399 – COORDINATIVE INTERNSHIP/COOPERATIVE EDUCATION**

1-8 credits.

**Requisites:** So, Jr or Sr st and cons supervising inst, advisor and internship program coordinator

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017



**C&E SOC 400 – STUDY ABROAD IN COMMUNITY AND ENVIRONMENTAL SOCIOLOGY**

1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. W.-Madison Study Abroad Program

**Requisites:** Current registration in a U.**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2010**C&E SOC/ENVIR ST/GEOG 434 – PEOPLE, WILDLIFE AND LANDSCAPES**

3 credits.

This course explores the relationship between humans and wildlife amidst diverse landscapes, both historic and contemporary, tropical and temperate. We study how humans shape wild animal populations by modifying physical environments, and by hunting, domesticating and introducing species.

**Requisites:** Geog/Envir St 339**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**C&E SOC/SOC 475 – CLASSICAL SOCIOLOGICAL THEORY**

3 credits.

Classical theory; Marx, Durkheim, Weber, and other important classical theorists and schools of thought. Gateway to advanced courses in sociology.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**C&E SOC 500 – CAPSTONE EXPERIENCE**

3 credits.

A capstone experience involving the application of sociological concepts and methods to concrete social and environmental problems. Students work in teams and may engage problems using service learning, community based research, and interdisciplinary approaches.

**Requisites:** Senior standing**Repeatable for Credit:** No**Last Taught:** Fall 2017**C&E SOC/SOC 532 – HEALTH CARE ISSUES FOR INDIVIDUALS, FAMILIES AND SOCIETY**

3 credits.

Issues related to health and health care delivery in our society. Topics include social, cultural and ethical influences on consumer definitions of health and use of medical care, and on the health care system's responses.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2013**C&E SOC/SOC 533 – PUBLIC HEALTH IN RURAL & URBAN COMMUNITIES**

3 credits.

Sociological approaches to community, rural, and public health. Examines epidemiological evidence for and policy solutions to health issues that impact vulnerable populations in diverse geographic and social settings. Topics include mental health, environmental and occupational health, preventive care, substance abuse.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**C&E SOC/ENVIR ST/SOC 540 – SOCIOLOGY OF INTERNATIONAL DEVELOPMENT, ENVIRONMENT, AND SUSTAINABILITY**

3 credits.

Sociological analysis of relationships among economic growth, environmental sustainability and social justice in the developing world. Considers frameworks for understanding poverty, hunger, educational and technological inequality, and the impact of globalization on prospects for socially and ecologically sustainable development.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**C&E SOC/SOC 541 – ENVIRONMENTAL STEWARDSHIP AND SOCIAL JUSTICE**

3 credits.

Application of sociological theory and analysis to environmental issues. Course examines the ways in which environmental stewardship and conflict are embedded within broader cultural, social, and political contexts.

**Requisites:** Any of these: Intro Soc course (SOC/C&E SOC 140, 181, 210, or 211), Soc/CE Soc/Forest and Wildlife Ecol 248, Envir St 112, Envir St 113, Envir St/GEOG/ENVIR ST 139, Envir St/GEOG/ENVIR ST 337, Envir St/GEOG/ENVIR ST 339, GEOG 101

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**C&E SOC/AGRONOMY/MED HIST/PHILOS 565 – THE ETHICS OF MODERN BIOTECHNOLOGY**

3-4 credits.

Study of ethical issues arising from the application of modern biotechnology to microorganisms, crops, and non-human animals. Readings cover moral theory, technology studies, political philosophy, the science used in biotechnology, and current regulations governing its use.

**Requisites:** Junior standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**C&E SOC/SOC 573 – COMMUNITY ORGANIZATION AND CHANGE**

3 credits.

Examines theories of community change and different models of community organizing.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/ C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/ C&E SOC 211)

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**C&E SOC/AMER IND/SOC 578 – POVERTY AND PLACE**

3 credits.

The allocation of economic and social rewards in the United States; emphasis on persistently poor regions and communities; analysis of selected minority groups and their poverty statuses; poverty programs and their consequences for structural and cultural changes.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/ C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/ C&E SOC 211)

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**C&E SOC/SOC 610 – KNOWLEDGE AND SOCIETY**

3 credits.

Examines topics related to what has been called the "knowledge society." Explores various aspects of science and technology as they shape and are shaped by post-industrial societies.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/ C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/ C&E SOC 211)

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**C&E SOC/SOC/URB R PL 617 – COMMUNITY DEVELOPMENT**

3 credits.

Social, cultural and personality factors influencing community development, with reference to developing countries as well as contemporary rural communities; consideration of theoretical and operational issues.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/ C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/ C&E SOC 211)

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**C&E SOC/SOC 622 – ADVANCED TOPICS IN CRITICAL SOCIOLOGY**

3 credits.

Topics include: Marxism and feminism; race and class; alternative theories of history; methodological issues in contemporary Marxism.

**Requisites:** SOC/C&E SOC 475

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**C&E SOC/SOC 623 – GENDER, SOCIETY, AND POLITICS**

3 credits.

Examines the relationship between the social structures of gender (e.g., the domestic division of labor, sex-segregated occupational structures, gender ideologies, the social organization of sexuality) and political institutions, political activities, and state policies. SOC/C&E SOC 357 or a Gender Women's Studies course with a S, Y or Z breadth designation

**Requisites:** Junior standing.**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2014**C&E SOC/SOC 630 – SOCIOLOGY OF DEVELOPING SOCIETIES/THIRD WORLD**

3 credits.

Review of problems and prospects of so-called "developing societies." Includes theory of economic/social development, political economic organizations of "developing" societies, history of colonialism/imperialism, attempts to industrialize and results of those attempts.

**Requisites:** Junior standing**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**C&E SOC/SOC/URB R PL 645 – MODERN AMERICAN COMMUNITIES**

3 credits.

Relevance of the concept of community to American society. Review of several basic theories of community and analysis of the nature of community in the broader political and economic context.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**C&E SOC/SOC 649 – SOCIOLOGY OF WORK AND EMPLOYMENT**

3 credits.

Introduction to key themes in the sociology of work and employment. Uses comparative, historical, and theoretical perspectives to analyze contemporary transformations of work and employment in the 'new economy', with particular emphasis on the United States, Western Europe, and Japan.

**Requisites:** Intro Soc course (SOC/C&E SOC 140, 181, 210, or 211) and SOC/C&E SOC 357**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2009**C&E SOC/SOC 650 – SOCIOLOGY OF AGRICULTURE**

3 credits.

Introduction to sociology of agriculture in advanced industrial-capitalist societies, including theoretical, historical, and empirical issues of agriculture in the United States.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**C&E SOC/SOC 652 – SOCIOLOGY OF ECONOMIC INSTITUTIONS**

3 credits.

Sociological perspectives on the organization of the firm, financial markets, and work, intermediate associations (unions, ethnic economies), the state, and the international economy. Contrast between neoclassical, traditional institutionalist, post-fordist, and neo-fordist perspectives on the nature and evolution of these institutions.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**C&E SOC/SOC 655 – MICROFOUNDATIONS OF ECONOMIC SOCIOLOGY**

3 credits.

A review and critique of economic theory from a sociological perspective. Reviews central concepts of contemporary microeconomics (e.g., rationality, exchange, strategic interaction, evolution, information), addressing critiques and alternatives offered by economic sociologists, economists, and other behavioral and social scientists.

**Requisites:** Intro Soc (SOC/C&E SOC 140, 181, 210, or 211), SOC/C&E SOC 357, SOC/C&E SOC 360, Senior standing, and consent of instructor**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2014

**C&E SOC/SOC 676 – APPLIED DEMOGRAPHY: PLANNING AND POLICY**  
3 credits.

Introduction to demographic concepts, methods, data, and trends for application in business, government, planning and other applied areas. Emphasis on U.S. census data and their uses.

**Requisites:** Intro Soc course (SOC/C&E SOC 140, 181, 210, or 211) and SOC/C&E SOC 357

**Course Designation:** Breadth - Social Science  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**C&E SOC 681 – SENIOR HONORS THESIS**

2-4 credits.

**Requisites:** Honors program candidacy

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2006

**C&E SOC 682 – SENIOR HONORS THESIS**

2-4 credits.

Continuation of 681.

**Requisites:** Honors program candidacy Rur SOC 681

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**C&E SOC 691 – SENIOR THESIS**

2 credits.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2012

**C&E SOC 692 – SENIOR THESIS**

2 credits.

**Requisites:** None

**Repeatable for Credit:** No

**C&E SOC/SOC 693 – PRACTICUM IN ANALYSIS AND RESEARCH**

3 credits.

Practical experience in techniques of social research through assignment to a research project for the semester. Lectures, readings, and discussions of the art and practice of research and the writing of research reports. For undergraduate and graduate students participating in the department's Concentration in Analysis and Research. Open only to students currently enrolled in CAR

**Requisites:** SOC/C&E SOC 357, SOC/C&E SOC 360, SOC/C&E SOC 361, and CAR internship.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Accelerated Honors (!)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**C&E SOC 699 – SPECIAL PROBLEMS**

1-4 credits.

**Requisites:** Sr st and cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**C&E SOC/I SY E/N E/SOC 708 – SOCIETAL RISK MANAGEMENT OF TECHNOLOGICAL HAZARDS**

3 credits.

Issues involved in decision-making regarding technological risks and risk management in areas such as nuclear power, hazardous waste disposal, and pollution control. Risk perception and cognitive biases; risk analysis and decision analysis; political issues in risk management; regulatory mechanisms; and risk communication. Selected case studies.

**Requisites:** STAT 311 or MATH/STAT 431 or SOC/C&E SOC 360, IE 516, Grad st; or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**C&E SOC/SOC 724 – INTERMEDIATE POLITICAL SOCIOLOGY**

3 credits.

Critical examination of theories and research in political sociology. Topics include: power and interests, state-formation, social movements, class and political behavior, revolutions, ideology, and states and social policy.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**C&E SOC/SOC 730 – INTERMEDIATE SOCIAL PSYCHOLOGY: THE INDIVIDUAL AND SOCIETY**

3 credits.

Major social psychological theories and research that focus on the individual in social context. Topics include: perspectives on socialization, the self, social perception and attribution, attitudes, language and nonverbal communication, and attraction and relationships.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**C&E SOC/SOC 731 – INTERMEDIATE SOCIAL PSYCHOLOGY: GROUP AND COLLECTIVE PROCESSES**

3 credits.

Major social psychological theories and research that focus on interpersonal relations and group processes. Topics include: social interaction (influence, self-presentation, altruism, aggression), groups (cohesion, conformity, leadership, problem-solving, decision making), intergroup relations (conflict, stereotypes), n-person games (dilemmas, coalition formation).

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**C&E SOC/SOC 748 – ENVIRONMENTAL SOCIOLOGY**

3 credits.

Interaction between societies and their environments. Includes human ecology, environmental attitudes and individual actions, the social organization of environmental protection and exploitation and the effects of science, technology, and development.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2012**C&E SOC/F&W ECOL/SOC 749 – SOCIAL POLICY AND MANAGEMENT OF NATIONAL PARKS AND PROTECTED AREAS**

3 credits.

Explores the relationship of social policy to the formation and management of U.S. National Parks in the past, present and future. Implications of social policy for park systems and preserves throughout the world are addressed.

**Requisites:** Graduate or professional standing**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2010**C&E SOC/SOC 750 – RESEARCH METHODS IN SOCIOLOGY**

3 credits.

Application of scientific methods to the analysis of social phenomena; methodological orientations in sociology; types of research procedure: nature of sociological variables; lectures and lab.

**Requisites:** Grad st, SOC/C&E SOC 357 and 362 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**C&E SOC/ED POL/SOC 755 – METHODS OF QUALITATIVE RESEARCH**

3 credits.

Introduces qualitative, or ethnographic, research methods, emphasizing those suitable for educational and other organizational settings. Considers strengths and limitations of qualitative approaches in relation to varied research problems. Explores methodological procedures from entry into the field through writing.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**C&E SOC/SOC 875 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**C&E SOC/GEN&WS/SOC 904 – SOCIOLOGICAL PERSPECTIVES ON GENDER**

3 credits.

Advanced topics in the analysis of gender relations in society.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**C&E SOC/SOC 913 – SEMINAR-SOCIAL CHANGE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**C&E SOC/SOC 922 – SEMINAR-RACE AND ETHNIC RELATIONS**

3 credits.

Theoretical, methodological, and current research problems.

**Requisites:** SOC 134 or 646 cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**C&E SOC/SOC 923 – SEMINAR-SOCIAL STRATIFICATION**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016



**C&E SOC/ANTHRO/ECON/SOC 925 – SEMINAR: SOCIO-ECONOMIC CHANGE IN UNDERDEVELOPED AREAS**

2-3 credits.

Social and economic factors relating to stability, growth, and change in the non-Western areas of the contemporary world.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**C&E SOC/SOC 929 – SEMINAR: CLASS ANALYSIS AND HISTORICAL CHANGE**

3 credits.

Selected topics in Marxist theory and research.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**C&E SOC/SOC 940 – SEMINAR-SOCIOLOGY OF ECONOMIC CHANGE**

3 credits.

Theoretical and technical problems in research concerning organizational and socio-psychological aspects of changes in large scale social systems.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**C&E SOC/SOC 945 – SEMINAR-RURAL SOCIOLOGY**

3 credits.

Theory and research in alternate semesters in rural aspects of population, stratification, social change, and groups and institutions.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

**C&E SOC/SOC 948 – SEMINAR: ENVIRONMENTAL SOCIOLOGY**

3 credits.

Examines topics such as theories of environment and society, the treadmill of production, environmental movements, political ecology, environmental justice, consumption, ecological modernization, sustainability, environmental risk, and the sociology of environmental science.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**C&E SOC/SOC 960 – SEMINAR-CURRENT METHODOLOGICAL ISSUES IN SOCIAL PSYCHOLOGY**

3 credits.

Alternative research designs and processes, measurement, and analytical techniques in social psychology; experience in developing and utilizing research plans and techniques.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

**C&E SOC/SOC 961 – SEMINAR-ADVANCED SOCIAL PSYCHOLOGY**

3 credits.

A selected research or theoretical area. Topic varies.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2013

**C&E SOC/SOC 965 – SEMINAR-RECENT DEVELOPMENTS IN SOCIAL PSYCHOLOGY**

3 credits.

Current literature, emphasis on recent journal articles.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2009

**C&E SOC/SOC 971 – SEMINAR-TOPICS IN DEMOGRAPHY AND ECOLOGY**

3 credits.

Content varies.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**C&E SOC/SOC 977 – SEMINAR-HUMAN ECOLOGY**

3 credits.

Review of ecological theory and research; critical assessment of the ecological complex (population, organization, environment, and technology); problems of measurement.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2012



**C&E SOC/A A E/ANTHRO/GEOG/HISTORY/LACIS/POLI SCI/PORTUG/SOC/SPANISH 982 – INTERDEPARTMENTAL SEMINAR IN THE LATIN-AMERICAN AREA**

1-3 credits.

Interdisciplinary inquiry in Latin American society and culture.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**C&E SOC/SOC 985 – RESEARCH: COMMUNITY AND ENVIRONMENTAL SOCIOLOGY**

1-3 credits.

Critical analysis of recent theoretical and methodological issues through presentations of research in progress by faculty, graduate students, and visiting scholars.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**C&E SOC/SOC 987 – RESEARCH: RACE AND ETHNIC STUDIES**

1-3 credits.

Analysis of recent research and theory, based on reviews of literature and presentations of their own work by faculty, graduate students, and visiting scholars.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**C&E SOC 990 – RESEARCH**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**C&E SOC/SOC 993 – RESEARCH: SOCIOLOGY OF ECONOMIC CHANGE TRAINEES**

1-3 credits.

Presentations of research in progress concerning social and economic change in developing countries.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**C&E SOC/SOC 995 – RESEARCH: METHODOLOGY TRAINEES**

1-3 credits.

**Requisites:** Method trainee or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**C&E SOC/SOC 997 – RESEARCH: DEMOGRAPHY AND ECOLOGY TRAINEES**

1-3 credits.

**Requisites:** Demography ecology trainee or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**C&E SOC 999 – READING AND RESEARCH**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COMPARATIVE BIOSCIENCES (COMP BIO)****COMP BIO 500 – FUNDAMENTAL PRINCIPLES OF VETERINARY ANATOMY**

5 credits.

A detailed consideration of gross anatomical structure with emphasis on major anatomical patterns present in species important to veterinary medicine. The dog is used as a model domestic mammal and comparisons with other species are considered. All body systems are dissected. Clinical implications of these dissections are emphasized.

**Requisites:** Declared in Veterinary Medicine program**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COMP BIO 501 – VETERINARY HISTOLOGY**

5 credits.

Comparative structural and functional aspects of cells and tissues will be examined. Mammalian histology will be stressed.

**Requisites:** Declared in Veterinary Medicine program**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMP BIO 502 – MOLECULAR AND METABOLIC BASIS OF MEDICINE**

3 credits.

This course covers metabolism with a more advanced incorporation of concepts of chemistry, cell biology and physiology. Clinical correlations in veterinary medicine are also covered.

**Requisites:** Vet Med st and BIOCHEM 501 or equiv, or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2017

**COMP BIO 503 – VETERINARY DEVELOPMENTAL ANATOMY**

2 credits.

Principles of development and organogenesis in domestic animals. Normal developmental patterns are related to adult anatomy. Clinical implications of common congenital defects are discussed.

**Requisites:** Declared in Veterinary Medicine program**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMP BIO 505 – VETERINARY NEUROANATOMY AND NEUROPHYSIOLOGY**

3 credits.

A comparative approach to the morphological and physiological properties of the central nervous system of animals, particularly those of veterinary importance.

**Requisites:** Declared in Veterinary Medicine program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**COMP BIO 506 – VETERINARY PHYSIOLOGY B**

4 credits.

The second semester of a two semester comprehensive course in comparative veterinary physiology covering digestive, endocrine, and reproductive systems.

**Requisites:** Declared in Veterinary Medicine program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**COMP BIO 550 – ANATOMY OF THE LARGE DOMESTIC ANIMALS**

1-3 credits.

A dissection study of the horse and the ox with special emphasis on the anatomical specializations of these species. Extensive comparisons to the anatomy of the small domestic animals. Other large domestic animals will be considered as appropriate to demonstrate anatomical variation.

**Requisites:** Declared in Veterinary Medicine program**Repeatable for Credit:** No**Last Taught:** Spring 2017**COMP BIO 551 – VETERINARY PHYSIOLOGY A**

4 credits.

The first semester of a two semester comprehensive course in comparative veterinary physiology covering electrophysiology, and muscle, cardiovascular, respiratory, renal and acid-base physiology.

**Requisites:** Declared in Veterinary Medicine program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMP BIO 555 – VETERINARY TOXICOLOGY**

2 credits.

Science of toxicology as it relates to veterinary practice. The principles of toxicology and the mechanism and treatment of toxicants commonly encountered in small and large animals will be presented.

**Requisites:** Declared in Veterinary Medicine program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**COMP BIO 556 – VETERINARY PHARMACOLOGY**

4 credits.

Basic pharmacology of various drug classes used in veterinary medicine together with examples of clinical drug use. Important species variations in drug use and drug response will be stressed.

**Requisites:** Comp Bio 552 or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2017**COMP BIO 675 – SPECIAL TOPICS**

1-5 credits.

Topics vary.

**Requisites:** Cons inst**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COMP BIO 699 – DIRECTED STUDY**

1-5 credits.

Projects in the laboratory and/or through library work in specific subject area under the direct guidance of faculty member.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COMP BIO 775 – EXTERNSHIP**

1-24 credits.

This course is an elective for fourth year veterinary medical students which offers faculty coordinated experience in the veterinary medical profession outside the School.

**Requisites:** Vet Med st or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COMP BIO 990 – RESEARCH**

1-12 credits.

Research.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

# COMPARATIVE LITERATURE (COMP LIT)

## COMP LIT 201 – INTRODUCTION TO PRE-MODERN LITERATURES/ IMPACT ON THE MODERN WORLD

3 credits.

Critical study of pre-modern literatures from the ancient worlds to the Middle Ages; broad survey covering many national literatures, stressing cross-cultural literary relations and their impact on the modern world.

**Requisites:** Open to Fr; not open to stdts who have taken Comp Lit 287

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

## COMP LIT 202 – INTRODUCTION TO MODERN AND CONTEMPORARY LITERATURE

3 credits.

Critical study of modern literature, from the 15th century to the 20th century; broad survey covering many national literatures, stressing cross-cultural literary relations and including emergent literatures.

**Requisites:** Open to Fr; not open to stdts who have taken Comp Lit 288

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

## COMP LIT 203 – INTRODUCTION TO CROSS-CULTURAL LITERARY FORMS

3 credits.

Introduction to the critical study of specific literary forms (e.g., comedy, short story) and the connections between literary forms and other cultural and artistic phenomena (e.g., cinema, TV, music, visual arts).

Open to Fr

**Requisites:** This crse is non-repeatable for comp lit majors.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## COMP LIT 205 – INTRO TO COMPARATIVE STUDY OF RACE & ETHNICITY, IN & BEYOND THE U.S.

3 credits.

Comparative analysis of the modern categories of race and ethnicity as they have developed and are understood and practiced in diverse locations; course readings will include literary and non-literary texts and a 25% - 50% focus on race and ethnicity in the U.S. Open to Fr

**Requisites:** Satisfaction of or exemption from Comm A requirement.

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

## COMP LIT 310 – INTRODUCTION TO LITERARY CRITICISM

3-4 credits.

Critical methodologies of comparative literature. General theories of literature and distinct approaches to literary texts. Required for the major. Lecture only: 3 cr; lecture and disc: 4 cr

**Requisites:** So st and 6 cr of intro lit or con reg.

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

## COMP LIT 350 – PROBLEMS IN COMPARATIVE LITERATURES AND CULTURES

3-4 credits.

Comparative study - historical, theoretical, critical - of literatures and literary studies in their interaction with cultural themes, with social formations, with seminal concepts and ideas, with non-literary disciplines as they inform reading and analysis of literature.

**Requisites:** Jr st or completion of 2 sem of lit

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## COMP LIT 351 – LYRIC

3-4 credits.

Comparative study of lyric poetry as a genre; its history, social functions, and critical-theoretical discussion, and the problems of its analysis and interpretation. Lecture only: 3 cr; lecture and disc: 4 cr

**Requisites:** Jr st or completion of 2 sem lit.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2009

**COMP LIT 357 – FANTASY AND SCIENCE FICTION**

3 credits.

Comparison of themes current in modern fantasy and science fiction writing with those found in literature of previous historical periods.

**Requisites:** Six cr of literature or Jr st

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2010

**COMP LIT 358 – PROBLEMS IN TRANSNATIONAL GENRE AND MODE**

3-4 credits.

Comparative study of the nature and substance of genre distinctions; relations between genre and mode in diverse literatures; critical analysis of texts in the context of literary distinctions of genre and mode - with attention to cross-cultural, transnational and historical perspectives.

Lecture only: 3 cr; lecture and disc: 4 cr

**Requisites:** Jr st or completion of 2 semesters of lit.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**COMP LIT 368 – LITERATURE AND IDEAS**

3-4 credits.

Historical, analytical and theoretical study of the impact and relevance of seminal concepts and ideas. Lecture only: 3 cr; lecture and disc: 4 cr

**Requisites:** Jr st or completion of 2 sem of lit.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2013

**COMP LIT 370 – COMPARATIVE PROBLEMS IN PERIODS AND MOVEMENTS**

3-4 credits.

Comparative study of literatures of historical periods, international and inter-linguistic relations, flux of ideas, forms, styles; literary movements and trends, principles linking literary texts, their diversity and variation, their connection to relevant debates in aesthetics, philosophy, or other fields.

**Requisites:** Jr st or completion of 2 sem of lit

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**COMP LIT 371 – LITERARY CRITICISM**

3-4 credits.

Introduction to the basic trends and schools of literary criticism; in-depth study of representative critics from past centuries and from major contemporary schools. Lecture only: 3 cr; lecture and disc: 4 cr

**Requisites:** Six cr of literature or cons inst.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**COMP LIT 375 – LITERATURE AND RELATED DISCIPLINES**

3-4 credits.

Critical, analytical and theoretical examination of the methodological and practical application of non-literary disciplines to the study of literature in an international context. Lecture only: 3 cr; lecture and disc: 4 cr

**Requisites:** Jr st or completion of 2 sem of lit.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2009

**COMP LIT 379 – LITERATURE AND ETHNIC EXPERIENCE**

3-4 credits.

Attempts to define through comparative analysis the ways in which ethnicity is constructed and problematized in literary texts. Lecture only: 3 cr; lecture and disc: 4 cr

**Requisites:** Jr st or completion of 2 sem of lit.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**COMP LIT 466 – LITERATURE , MEDIA, THE ARTS**

3-4 credits.

Comparative critical study of the theoretical and practical interactions of literature with the arts (music, fine art, plastic arts); with visual, material, or digital cultures; with the media - with attention to cross-cultural, transnational and historical perspectives. Lecture only: 3 cr; lecture and disc: 4 cr

**Requisites:** Jr st or completion of 2 sem of lit.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**COMP LIT 473 – THEMATICS**

3-4 credits.

Comparative study of the creation and perpetuation of themes and motifs in different cultural contexts, and the problems of their analysis and interpretation in specific literary (and other) works. Lecture only: 3 cr; lecture and disc: 4 cr

**Requisites:** Jr st or completion of 2 sem of lit.**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**COMP LIT 475 – POETICS AND LITERARY THEORY**

3-4 credits.

Study of the changes and development of the systematics, theoretics, and mechanics of literary form and utterance. Lecture only: 3 cr; lecture and disc: 4 cr

**Requisites:** Six cr of lit or cons inst.**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**COMP LIT 500 – THE COMPARATIVE IN AND BEYOND COMPARATIVE LITERATURE**

3 credits.

A bridge course on a wide range of comparative topics - literary, cultural, philosophical, historical, legal - between the Department of Comparative Literature and the departments of our affiliate faculty members. Open to advanced undergraduate and graduate students.

**Requisites:** Junior standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COMP LIT 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Permission of dept honors advisor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2010**COMP LIT 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Completion of 681 or consent of department honors advisor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2012**COMP LIT 690 – PROSEMINAR**

3 credits.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**COMP LIT 691 – SENIOR THESIS**

2-3 credits.

**Requisites:** Senior standing, consult Undergrad advisor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**COMP LIT 692 – SENIOR THESIS**

3 credits.

**Requisites:** Senior standing, consent of Undergrad Advisor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**COMP LIT 698 – DIRECTED STUDY**

1-6 credits.

**Requisites:** Graded on a Cr/N basis; requires permission of dept chairman**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 1987**COMP LIT 699 – DIRECTED STUDY**

1-6 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COMP LIT 702 – PROBLEMS IN COMPARATIVE STUDIES**

3 credits.

Comparative methods and the range of the discipline exposed through consideration of a variety of possible approaches.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015

**COMP LIT 731 – TEACHING IN THE DISCIPLINE**

1 credit.

Seminar and practicum for teaching assistants in comparative literature and other graduate students in humanities interested in learning about comparative methodology and pedagogy.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**COMP LIT 750 – PROBLEMS IN COMPARATIVE LITERATURES AND CULTURES**

3 credits.

Comparative study - historical, theoretical, critical - of literatures and literary studies in their interaction with cultural themes, with social formations, with seminal concepts and ideas, with non-literary disciplines as they inform reading and analysis of literature.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**COMP LIT 768 – LITERATURE AND IDEAS**

3 credits.

The history and impact of seminal concepts.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2009

**COMP LIT 770 – COMPARATIVE PROBLEMS IN PERIODS AND MOVEMENTS**

3 credits.

Comparative study of literatures of historical periods, international and inter-linguistic relations, flux of ideas, forms, styles; literary movements and trends, principles linking literary texts, their diversity and variation, their connection to relevant debates in aesthetics, philosophy, or other fields.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**COMP LIT 771 – LITERARY CRITICISM**

3 credits.

History, theory, and practice.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**COMP LIT 775 – LITERATURE AND RELATED DISCIPLINES**

3 credits.

Attempts to answer the question: What can the methods and discoveries of other disciplines contribute to the study of literature?

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**COMP LIT 777 – LITERARY PERIODS**

3 credits.

Attempts to characterize the literature of well-defined historical epochs in terms of international and interlinguistic relations, the flux of ideas, forms, and styles.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2008

**COMP LIT 822 – SEMINAR-TRANSLATION**

3 credits.

The theory and practice of translation.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**COMP LIT 958 – SEMINAR: PROBLEMS IN TRANSNATIONAL GENRE AND MODE**

3 credits.

Comparative study of the nature and substance of genre distinctions; of the relations between genre and mode in diverse literatures; of the critical analysis of texts in the context of literary distinctions of genre and mode - with attention to cross-cultural, transnational and historical perspectives.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**COMP LIT 963 – SEMINAR IN ROOTS AND RAMIFICATIONS**

3 credits.

Major sources and principal followers of a single figure, without regard to national or linguistic boundaries.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2009



**COMP LIT 966 – SEMINAR-LITERATURE, MEDIA, THE ARTS**

3 credits.

Comparative critical study of the theoretical and practical interactions of literature with the arts (music, fine art, plastic arts); with visual, material, or digital cultures; with the media - with attention to cross-cultural, transnational and historical perspectives.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**COMP LIT 975 – SEMINAR-POETICS AND LITERARY THEORY**

3 credits.

Systematics, theoretics, and mechanics of literary form.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COMP LIT 976 – SEMINAR IN POETICS (POLYSEMINAR)**

1 credit.

Systematics, theoretics, and mechanics of literary and cultural forms.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COMP LIT 990 – RESEARCH AND THESIS**

1-12 credits.

Consult department chairperson.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMP LIT 999 – INDEPENDENT WORK**

1-3 credits.

Consult department chairperson.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**COMPUTER SCIENCES (COMP SCI)****COMP SCI 200 – PROGRAMMING I**

3 credits.

Learn the process of incrementally developing small (200-500 lines) programs along with the fundamental Computer Science topics. These topics include: problem abstraction and decomposition, the edit-compile-run cycle, using variables of primitive and more complex data types, conditional and loop-based flow control, basic testing and debugging techniques, how to define and call functions (methods), and IO processing techniques. Also teaches and reinforces good programming practices including the use of a consistent style, and meaningful documentation. Intended for students who have no prior programming experience.

**Requisites:** Satisfied Quantitative Reasoning (QR) A requirement**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Natural Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMP SCI 202 – INTRODUCTION TO COMPUTATION**

3 credits.

An introduction to the principles that form the foundation of computer science. Suitable for students with a general background who wish to study the key principles of computer science rather than just computer programming. MATH 118 does not fulfill the prerequisite. Not open to students with credit for COMP SCI 300 or 367

**Requisites:** MATH 096 or placement into MATH 141.**Course Designation:** Gen Ed - Quantitative Reasoning Part A Breadth - Natural Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMP SCI/MATH 240 – INTRODUCTION TO DISCRETE MATHEMATICS**

3 credits.

Basic concepts of logic, sets, partial order and other relations, and functions. Basic concepts of mathematics (definitions, proofs, sets, functions, and relations) with a focus on discrete structures: integers, bits, strings, trees, and graphs. Propositional logic, Boolean algebra, and predicate logic. Mathematical induction and recursion. Invariants and algorithmic correctness. Recurrences and asymptotic growth analysis. Fundamentals of counting.

**Requisites:** MATH 217, 221, or 275**Course Designation:** Breadth - Natural Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**COMP SCI 250 – DIGITAL SOCIETY: THE IMPACT OF COMPUTERS AND COMPUTER TECHNOLOGY**

3 credits.

Introduction to computers in the digital society; social changes they influence, and choices they present. Topics include: digital divide, role of computers in improving quality of life, electronic voting and governance, digital intellectual property rights, privacy, computers and the environment.

**Requisites:** None**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2011**COMP SCI/E C E 252 – INTRODUCTION TO COMPUTER ENGINEERING**

2 credits.

Logic components built with transistors, rudimentary Boolean algebra, basic combinational logic design, basic synchronous sequential logic design, basic computer organization and design, introductory machine- and assembly-language programming.

**Requisites:** None**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMP SCI 270 – FUNDAMENTALS OF HUMAN-COMPUTER INTERACTION**

3 credits.

User-centered software design including principles and methods for understanding user needs, designing and prototyping interface solutions, and evaluating their usability covered through lectures and hands-on in-class activities. Meets with COMP SCI 570.

**Requisites:** Not open to students with credit for COMP SCI 570**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**COMP SCI 298 – DIRECTED STUDY IN COMPUTER SCIENCE**

1-3 credits.

Undergraduate directed study in computer sciences.

**Requisites:** Consent of instructor**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**COMP SCI 300 – PROGRAMMING II**

3 credits.

Introduces students to Object-Oriented Programming using classes and objects to solve more complex problems. Introduces array-based and linked data structures: including lists, stacks, and queues. Programming assignments require writing and developing multi-class (file) programs using interfaces, generics, and exception handling to solve challenging real world problems. Topics reviewed include reading/writing data and objects from/to files and exception handling, and command line arguments. Topics introduced: object-oriented design; class vs. object; create and define interfaces and iterators; searching and sorting; abstract data types (List, Stack, Queue, PriorityQueue (Heap), Binary Search Tree); generic interfaces (parametric polymorphism); how to design and write test methods and classes; array based vs. linked node implementations; introduction to complexity analysis; recursion.

**Requisites:** Satisfied QR-A requirement and (Score of 3 on Computer Science (A) AP Exam, COMP SCI 200, 301, 302 or 310) or (COMP SCI/E C E/COMP SCI 252 and E C E 203) or graduate or professional standing; or declared in the Professional Capstone Program in Computer Sciences

**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Natural Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMP SCI 301 – INTRODUCTION TO DATA PROGRAMMING**

3 credits.

Instruction and experience in the use of a programming language for beginners. Program design; development of good programming style. No previous computing experience required. Recommended for non-CS and undecided majors.

**Requisites:** Satisfied Quantitative Reasoning (QR) A requirement or enrollment in the Professional Capstone Program in Computer Sciences

**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Natural Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMP SCI 302 – INTRODUCTION TO PROGRAMMING**

3 credits.

Instruction and experience in the use of an object-oriented programming language. Program design; development of good programming style; preparation for other computer science courses.

**Requisites:** Satisfied Quantitative Reasoning (QR) A requirement

**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Natural Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017

**COMP SCI 304 – WES-CS GROUP MEETING**

1 credit.

Small group meetings for Wisconsin Emerging Scholars - Computer Science (WES-CS) students. Meets in small groups to work together on problems related to the COMP SCI 200 course material. For information about WES-CS membership, contact the computer sciences department.

**Requisites:** Concurrent enrollment in COMP SCI 200 and member of Wisconsin Emerging Scholars program in Computer Science

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI 310 – PROBLEM SOLVING USING COMPUTERS**

3 credits.

Gives students an introduction to computer and analytical skills to use in their subsequent course work and professional development. Discusses several methods of using computers to solve problems, including elementary programming techniques, symbolic manipulation languages, and software packages. Techniques will be illustrated using sample problems drawn from elementary engineering. Emphasis is on introduction of algorithms with the use of specific tools to illustrate the methods.

**Requisites:** MATH 222, graduate or professional standing, or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**COMP SCI/E C E 352 – DIGITAL SYSTEM FUNDAMENTALS**

3 credits.

Logic components, Boolean algebra, combinational logic analysis and synthesis, synchronous and asynchronous sequential logic analysis and design, digital subsystems, computer organization and design.

**Requisites:** COMP SCI/E C E/COMP SCI 252

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI/E C E 354 – MACHINE ORGANIZATION AND PROGRAMMING**

3 credits.

An introduction to fundamental structures of computer systems and the C programming language with a focus on the low-level interrelationships and impacts on performance. Topics include the virtual address space and virtual memory, the heap and dynamic memory management, the memory hierarchy and caching, assembly language and the stack, communication and interrupts/signals, compiling and assemblers/linkers.

**Requisites:** COMP SCI/E C E/COMP SCI 252 and (COMP SCI 300 or 302) or graduate or professional standing or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Gen Ed - Quantitative Reasoning Part B  
Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI 367 – INTRODUCTION TO DATA STRUCTURES**

3 credits.

Study of data structures (including stacks, queues, trees, graphs, and hash tables) and their applications. Development, implementation, and analysis of efficient data structures and algorithms (including sorting and searching). Experience in use of an object-oriented programming language. Students are strongly encouraged to take Comp Sci 367 within two semesters of having taken Comp Sci 302

**Requisites:** Comp Sci 302 or cons inst.

**Course Designation:** Gen Ed - Quantitative Reasoning Part B  
Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI 368 – LEARNING A PROGRAMMING LANGUAGE**

1 credit.

For students interested in learning a particular programming language. Focuses on a specific language offered at one of three levels: beginner, intermediate, and advanced. Students may repeat the course if the topic title is different.

**Requisites:** None

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**COMP SCI 369 – WEB PROGRAMMING**

3 credits.

Covers web application development end-to-end: languages and frameworks for client- and server-side programming, database access, and other topics. Involves hands-on programming assignments. Students attain a thorough understanding of and experience with writing web applications using tools popular in industry.

**Requisites:** (COMP SCI 300 or 367), graduate or professional standing, or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Breadth - Natural Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**COMP SCI/INFO SYS 371 – TECHNOLOGY OF COMPUTER-BASED BUSINESS SYSTEMS**

3 credits.

Overview of computers, their attendant technology, and the implications of this technology for large-scale, computer-based information systems. Topics include hardware, system software, program development, files and data communications.

**Requisites:** COMP SCI 301

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**COMP SCI 400 – PROGRAMMING III**

3 credits.

The third course in our programming fundamentals sequence. It presumes that students understand and use functional and object-oriented design and abstract data types as needed. This course introduces balanced search trees, graphs, graph traversal algorithms, hash tables and sets, and complexity analysis and about classes of problems that require each data type. Students are required to design and implement using high quality professional code, a medium sized program, that demonstrates knowledge and use of latest language features, tools, and conventions. Additional topics introduced will include as needed for projects: inheritance and polymorphism; anonymous inner classes, lambda functions, performance analysis to discover and optimize critical code blocks. Students learn about industry standards for code development. Students will design and implement a medium size project with a more advanced user-interface design, such as a web or mobile application with a GUI and event- driven implementation; use of version-control software.

**Requisites:** COMP SCI 300

**Course Designation:** Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**COMP SCI 402 – INTRODUCING COMPUTER SCIENCE TO K-12 STUDENTS**

2 credits.

Work in teams to lead Computer Science clubs and workshops for K-12 students at sites in the Madison area. Design and lead activities to help K-12 students learn computational thinking and computer programming.

**Requisites:** (COMP SCI 200, 202, 300, 301, 302, 310, or 367), graduate or professional standing, or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI 407 – FOUNDATIONS OF MOBILE SYSTEMS AND APPLICATIONS**

3 credits.

Design and implementation of applications, systems, and services for mobile platforms with (i) constraints, such as limited processing, memory, energy, interfaces, variable bandwidth, and high mobility, and (ii) features, such as touchscreens, cameras, electronic compasses, GPS, and accelerometers.

**Requisites:** (COMP SCI 300 or 367), graduate or professional standing, or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**COMP SCI 412 – INTRODUCTION TO NUMERICAL METHODS**

3 credits.

Interpolation, solution of linear and nonlinear systems of equations, approximate integration and differentiation, numerical solution of ordinary differential equations, Data fitting (such as least squares) by polynomials and splines. Knowledge of matrix algebra recommended, such as MATH 340.

**Requisites:** MATH 222 and (COMP SCI/MATH/COMP SCI 240 or MATH 234) and (COMP SCI 200, 300, 301, 302, or 310) or graduate or professional standing or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI/ISY E/MATH 425 – INTRODUCTION TO COMBINATORIAL OPTIMIZATION**

3 credits.

Focuses on optimization problems over discrete structures, such as shortest paths, spanning trees, flows, matchings, and the traveling salesman problem. We will investigate structural properties of these problems, and we will study both exact methods for their solution, and approximation algorithms.

**Requisites:** (MATH 320, 340, 341, or 375) or graduate or professional standing

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Science req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**COMP SCI/ECE/MATH 435 – INTRODUCTION TO CRYPTOGRAPHY**

3 credits.

Cryptography is the art and science of transmitting digital information in a secure manner. This course will provide an introduction to its technical aspects.

**Requisites:** MATH 320, 340, 341, or 375

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI/STAT 471 – INTRODUCTION TO COMPUTATIONAL STATISTICS**

3 credits.

Classical statistical procedures arise where closed-form mathematical expressions are available for various inference summaries (e.g. linear regression; analysis of variance). A major emphasis of modern statistics is the development of inference principles in cases where both more complex data structures are involved and where more elaborate computations are required. Topics from numerical linear algebra, optimization, Monte Carlo (including Markov chain Monte Carlo), and graph theory are developed, especially as they relate to statistical inference (e.g., bootstrapping, permutation, Bayesian inference, EM algorithm, multivariate analysis).

**Requisites:** (MATH/STAT/MATH 310 and STAT 333) or graduate or professional standing

**Course Designation:** Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**COMP SCI/MATH/STAT 475 – INTRODUCTION TO COMBINATORICS**

3 credits.

Problems of enumeration, distribution, and arrangement. Inclusion-exclusion principle. Generating functions and linear recurrence relations. Combinatorial identities. Graph coloring problems. Finite designs. Systems of distinct representatives and matching problems in graphs. Potential applications in the social, biological, and physical sciences. Puzzles. Problem solving.

**Requisites:** (MATH 320, 340, 341, or 375) or graduate or professional standing

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI/ECE 506 – SOFTWARE ENGINEERING**

3 credits.

Ideas and techniques for designing, developing, and modifying large software systems. Topics include software engineering processes; requirements and specifications; project team organization and management; software architectures; design patterns; testing and debugging; and cost and quality metrics and estimation. Students will work in large teams on a substantial programming project.

**Requisites:** (COMP SCI 367 or 400) and (COMP SCI 407, 536, 537, 545, 559, 564, 570, 679 or COMP SCI/ECE/COMP SCI 552) or graduate or professional standing, or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI/MATH 513 – NUMERICAL LINEAR ALGEBRA**

3 credits.

Direct and iterative solution of linear and nonlinear systems and of eigenproblems. LU and symmetric LU factorization. Complexity, stability, and conditioning. Nonlinear systems. Iterative methods for linear systems. QR-factorization and least squares. Eigenproblems: local and global methods.

**Requisites:** (MATH 340, 341, or 375) and (COMP SCI 200, 300, 301, 302 or 310) or graduate or professional standing

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**COMP SCI/MATH 514 – NUMERICAL ANALYSIS**

3 credits.

Polynomial forms, divided differences. Polynomial interpolation. Polynomial approximation: uniform approximation and Chebyshev polynomials, least-squares approximation and orthogonal polynomials. Numerical differentiation and integration. Splines, B-splines and spline approximation. Numerical methods for solving initial and boundary value problems for ordinary differential equations.

**Requisites:** MATH 340 and (COMP SCI 200, 300, 301, or 310) or graduate or professional standing

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI 520 – INTRODUCTION TO THEORY OF COMPUTING**

3 credits.

Basics about the notion, capabilities, and limitations of computation: elements of finite automata and regular languages, computability theory, and computational complexity theory. Additional topics include context-free grammars and languages, and complexity-theoretic cryptography.

**Requisites:** (COMP SCI/MATH/COMP SCI 240 or COMP SCI/MATH/STAT/COMP SCI/MATH 475) and (COMP SCI 367 or 400), or graduate or professional standing, or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI/E C E/I SY E 524 – INTRODUCTION TO OPTIMIZATION**

3 credits.

Introduction to mathematical optimization from a modeling and solution perspective. Formulation of applications as discrete and continuous optimization problems and equilibrium models. Survey and appropriate usage of basic algorithms, data and software tools, including modeling languages and subroutine libraries.

**Requisites:** (COMP SCI 200, 300, 301, 302, or 310) and (MATH 320, 340, 341, or 375) or graduate or professional standing

**Course Designation:** Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI/I SY E/MATH/STAT 525 – LINEAR PROGRAMMING METHODS**

3 credits.

Real linear algebra over polyhedral cones; theorems of the alternative for matrices. Formulation of linear programs. Duality theory and solvability. The simplex method and related methods for efficient computer solution. Perturbation and sensitivity analysis. Applications and extensions, such as game theory, linear economic models, and quadratic programming.

**Requisites:** (MATH 320, 340, 341, 375, or 443) or graduate or professional standing

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI/I SY E 526 – ADVANCED LINEAR PROGRAMMING**

3-4 credits.

Review of linear programming. Polynomial time methods for linear programming. Quadratic programs and linear complementarity problems and related solution techniques. Solution sets and their continuity properties. Error bounds for linear inequalities and programs. Parallel algorithms for linear and quadratic programs.

**Requisites:** COMP SCI/ISYE/MATH/STAT/COMP SCI/I SY E/MATH 525 and (COMP SCI 200, 300, 301, 302, or 310) or graduate or professional standing

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**COMP SCI/E C E/M E 532 – THEORY AND APPLICATIONS OF PATTERN RECOGNITION**

3 credits.

Pattern recognition systems and components; decision theories and classification; discriminant functions; supervised and unsupervised training; clustering; feature extraction and dimensional reduction; sequential and hierarchical classification; applications of training, feature extraction, and decision rules to engineering problems.

**Requisites:** MATH 222 and (E C E 203, COMP SCI 200, 300 or 302) or graduate or professional standing

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**COMP SCI/E C E 533 – IMAGE PROCESSING**

3 credits.

Mathematical representation of continuous and digital images; models of image degradation; picture enhancement, restoration, segmentation, and coding; pattern recognition, tomography.

**Requisites:** E C E 330 and (MATH 320 or 340) or graduate or professional standing

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI 534 – COMPUTATIONAL PHOTOGRAPHY**

3 credits.

Study of sensing and computational techniques that enhance or extend the capabilities of digital photography by using methods from computer vision and computer graphics to create new visual representations. Algorithms for analyzing, improving, manipulating, combining, and synthesizing images.

**Requisites:** (COMP SCI 300 or 367) and (MATH 217, 221 or 275) or graduate or professional standing or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**COMP SCI 536 – INTRODUCTION TO PROGRAMMING LANGUAGES AND COMPILERS**

3 credits.

Introduction to the theory and practice of compiler design. Comparison of features of several programming languages and their implications for implementation techniques. Several programming projects required.

**Requisites:** COMP SCI/E C E/COMP SCI 354 and (COMP SCI 367 or 400) or graduate or professional standing or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI 537 – INTRODUCTION TO OPERATING SYSTEMS**

4 credits.

Input-output hardware, interrupt handling, properties of magnetic tapes, discs and drums, associative memories and virtual address translation techniques. Batch processing, time sharing and real-time systems, scheduling resource allocation, modular software systems, performance measurement and system evaluation.

**Requisites:** COMP SCI/E C E/COMP SCI 354 and (COMP SCI 367 or 400) or graduate or professional standing or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI 538 – INTRODUCTION TO THE THEORY AND DESIGN OF PROGRAMMING LANGUAGES**

3 credits.

Design and theory of programming languages: procedural, object-oriented, functional and logic paradigms. Serial and concurrent programming. Execution models and formal specification techniques.

**Requisites:** COMP SCI/E C E/COMP SCI 354 and (COMP SCI 367 or 400) or graduate or professional standing or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2008

**COMP SCI/E C E/M E 539 – INTRODUCTION TO ARTIFICIAL NEURAL NETWORK AND FUZZY SYSTEMS**

3 credits.

Theory and applications of artificial neural networks and fuzzy logic: multi-layer perceptron, self-organization map, radial basis network, Hopfield network, recurrent network, fuzzy set theory, fuzzy logic control, adaptive fuzzy neural network, genetic algorithm, and evolution computing. Applications to control, pattern recognition, nonlinear system modeling, speech and image processing.

**Requisites:** COMP SCI 200, 301, 302, or 310 or graduate or professional standing

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI 540 – INTRODUCTION TO ARTIFICIAL INTELLIGENCE**

3 credits.

Principles of knowledge-based search techniques, automatic deduction, knowledge representation using predicate logic, machine learning, probabilistic reasoning. Applications in tasks such as problem solving, data mining, game playing, natural language understanding, computer vision, speech recognition, and robotics.

**Requisites:** (COMP SCI 300 or 367) and (MATH 211, 217, 221, or 275) or graduate or professional standing or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI 545 – NATURAL LANGUAGE AND COMPUTING**

3 credits.

The course covers basic techniques and tools in natural language processing: generative grammars, parsing, dictionary construction, semantic networks, generation of text from a knowledge base, natural language interfacing, and machine translation.

**Requisites:** COMP SCI 536, 537, or 564 or graduate or professional standing or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**COMP SCI 547 – COMPUTER SYSTEMS MODELING FUNDAMENTALS**

3 credits.

An introduction to basic tools and applications for modeling and analysis of computer systems. Fundamentals of network flow graphs, graph models of computation and stochastic models of computer system performance. Network delay analysis and capacity planning, reachability analysis for deadlock detection in distributed systems, Markov Chains, elementary queueing theory, basic concepts of queueing network models and associated analyses.

**Requisites:** MATH 234 and (COMP SCI 300 or 367) and COMP SCI/E C E/COMP SCI 354 or graduate or professional standing or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**COMP SCI/E C E 552 – INTRODUCTION TO COMPUTER ARCHITECTURE**

3 credits.

The design of computer systems and components. Processor design, instruction set design, and addressing; control structures and microprogramming; memory management, caches, and memory hierarchies; and interrupts and I/O structures. E C E 551 or knowledge of Verilog is recommended.

**Requisites:** COMP SCI/E C E/COMP SCI 352 and COMP SCI/E C E/COMP SCI 354

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI/I SY E/M E 558 – INTRODUCTION TO COMPUTATIONAL GEOMETRY**

3 credits.

Introduction to fundamental geometric computations and algorithms, and their use for solving engineering and scientific problems. Computer representations of simple geometric objects and paradigms for algorithm design. Applications from areas of engineering analysis, design and manufacturing, biology, statistics, and other sciences.

**Requisites:** (COMP SCI 367 or 400) and MATH 234 or graduate or professional standing

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**COMP SCI 559 – COMPUTER GRAPHICS**

3 credits.

Survey of computer graphics. Image representation, formation, presentation, composition and manipulation. Modeling, transformation, and display of geometric objects in two and three dimensions. Representation of curves and surfaces. Rendering, animation, multimedia and visualization. Fluency with vector mathematics (e.g., from MATH 234 or a linear algebra class) is recommended.

**Requisites:** (MATH 222 or MATH 276) and (COMP SCI 367 or 400) or graduate or professional standing or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI 564 – DATABASE MANAGEMENT SYSTEMS: DESIGN AND IMPLEMENTATION**

4 credits.

What a database management system is; different data models currently used to structure the logical view of the database: relational, hierarchical, and network. Hands-on experience with relational and network-based database systems. Implementation techniques for database systems. File organization, query processing, concurrency control, rollback and recovery, integrity and consistency, and view implementation.

**Requisites:** COMP SCI/E C E/COMP SCI 354 and (COMP SCI 367 or 400) or graduate or professional standing or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMP SCI/B M I 567 – MEDICAL IMAGE ANALYSIS**

3 credits.

Present introductory medical image processing and analysis techniques. Topics include medical imaging formats, segmentation, registration, image quantification, classification. Strongly encourage Matlab experience, such as COMP SCI 310 or 368-Matlab.

**Requisites:** (MATH 320 or 340) and (B M I/STAT/B M I 511, 541, B M I/POP HLTH/B M I 551, STAT 324, 371, or FW ECOL/HORT/STAT/F&W ECOL/HORT 571) or graduate or professional standing

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**COMP SCI 570 – INTRODUCTION TO HUMAN-COMPUTER INTERACTION**

4 credits.

User-centered software design; (1) principles of and methods for understanding user needs, designing and prototyping interface solutions, and evaluating their usability, (2) their applications in designing web-based, mobile, and embodied interfaces through month long group projects. Meets with Comp Sci 270. Not open to students who have completed COMP SCI 270.

**Requisites:** (COMP SCI 200, 202, 300, 301, or 302) or graduate or professional standing or declared in the Capstone Certificate in Computer Sciences for Professionals.

**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**COMP SCI/B M I 576 – INTRODUCTION TO BIOINFORMATICS**

3 credits.

Algorithms for computational problems in molecular biology. The course will study algorithms for problems such as: genome sequencing and mapping, pairwise and multiple sequence alignment, modeling sequence classes and features, phylogenetic tree construction, and gene-expression data analysis.

**Requisites:** (COMP SCI 300 or 367) and MATH 222 or graduate or professional standing

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMP SCI 577 – INTRODUCTION TO ALGORITHMS**

4 credits.

Basic paradigms for the design and analysis of efficient algorithms: greed, divide-and-conquer, dynamic programming, reductions, and the use of randomness. Computational intractability including typical NP-complete problems and ways to deal with them.

**Requisites:** (COMP SCI/MATH/COMP SCI 240 or COMP SCI/MATH/STAT/COMP SCI/MATH 475) and (COMP SCI 367 or 400), or graduate or professional standing, or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMP SCI 578 – CONTEST-LEVEL PROGRAMMING**

1 credit.

Training in computer programming for competitions: assessing the coding difficulty and complexity of computational problems, recognizing the applicability of known algorithms, fast coding and testing, team work. COMP SCI 577 is suggested but not required.

**Requisites:** (COMP SCI 300 or 367), graduate or professional standing, or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014

**COMP SCI/DS 579 – VIRTUAL REALITY**

3 credits.

Introduces students to the field of virtual reality and focuses on creating immersive, interactive virtual experiences. Survey topics include historical perspectives on virtual reality technology, computer graphics and 3D modeling, human perception and psychology, human computer interaction and user interface design. This course is designed for students with backgrounds in Computer Science, Engineering, Art, Architecture and Design. Students will work in interdisciplinary teams on projects, culminating in a final event that will be showcased to the public. While not an official website, the class will be technologically motivated; therefore students should be comfortable learning new software. The class will utilize publicly available game design software which provides tools and services for the creation of interactive content. While not necessary, students may find it helpful to have taken classes in programming and computer graphics (such as COMP SCI 559: Computer Graphics) or in 3D modeling (such as ART 429: 3D Digital Studio I or DS 242: Visual Communication II).

**Requisites:** Sophomore standing**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**COMP SCI/L I S 611 – USER EXPERIENCE DESIGN 1**

3 credits.

Introduces students to the user experience design process, key stages involved in designing for user experience, and tasks, methods, and tools involved at each stage at an introductory level, including understanding and modeling users, needs, and context and performing basic design, prototyping, and formative evaluation.

**Requisites:** Declared in the Capstone Certificate in User Experience Design**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMP SCI/L I S 612 – USER EXPERIENCE DESIGN 2**

3 credits.

Students advance their understanding of the UX design process by learning and applying tools and techniques at an intermediate level, including conceptual and interaction design, more advanced methods for prototyping of design solutions, and iterative design based on user models and evaluation. Students apply skills learned in the course to develop and iteratively improve prototypes for a project.

**Requisites:** L I S/COMP SCI/L I S 611 and declared in the Capstone Certificate in User Experience Design**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**COMP SCI/L I S 613 – USER EXPERIENCE DESIGN 3**

3 credits.

Hone skills in assessment of digital user experience design including assessment of accessibility, information architecture, interactions, contribution to organizational goals, content workflows, trace data and advanced usability assessment. Students learn and apply core concepts of information architecture to improve digital design. Students gain understanding of how to find, analyze and interpret trace data to assess design. Students apply understanding of social aspects of digital media through exploration and application of participatory and value sensitive design approaches and analysis methods, broader stakeholder analysis and analysis that examine the fit between culture and task.

**Requisites:** L I S/COMP SCI/L I S 612 and declared in the Capstone Certificate in User Experience Design**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**COMP SCI/L I S 614 – USER EXPERIENCE DESIGN CAPSTONE**

1 credit.

Applies a design studio critique approach to produce a learning environment of collaborative and interdisciplinary peer critique and learning, in addition to provide expert feedback and suggestions. Students will present and defend the latest iteration of the user experience design project they developed in earlier courses while learning about the professions associated with digital user experience design.

**Requisites:** L I S/COMP SCI/L I S 613 and declared in the Capstone Certificate in User Experience Design**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**COMP SCI/I SY E 635 – TOOLS AND ENVIRONMENTS FOR OPTIMIZATION**

3 credits.

Formulation and modeling of applications from computer sciences, operations research, business, science and engineering involving optimization and equilibrium models. Survey and appropriate usage of software tools for solving such problems, including modeling language use, automatic differentiation, subroutine libraries and web-based optimization tools and environments.

**Requisites:** (MATH 320, 340, 341, or 375) and (COMP SCI 200, 202, 300, 301, or 302) or graduate or professional standing or declared in the Capstone Certificate in Computer Sciences for Professionals**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015

**COMP SCI 638 – UNDERGRADUATE TOPICS IN COMPUTING**

1-4 credits.

Selected topics in computing. Each offering of the course will cover a topic selected by the instructor and may cover one or more topics from all of computer science.

**Requisites:** (COMP SCI 200, 202, 300, 301, 302, 310, or 367), graduate or professional standing, or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Breadth - Natural Science  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**COMP SCI 639 – UNDERGRADUATE ELECTIVE TOPICS IN COMPUTING**

3-4 credits.

Selected topics in computing. Each offering of the course will cover a topic selected by the instructor. Offerings of this course will provide sufficient depth into their subject to count as electives to meet CS Major requirements.

**Requisites:** None

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**COMP SCI 640 – INTRODUCTION TO COMPUTER NETWORKS**

3 credits.

Architecture of computer networks and network protocols, protocol layering, reliable transmission, congestion control, flow control, naming and addressing, unicast and multicast routing, network security, network performance widely used protocols such as Ethernet, wireless LANs, IP, TCP, and HTTP.

**Requisites:** COMP SCI 537 or graduate or professional standing or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI 642 – INTRODUCTION TO INFORMATION SECURITY**

3 credits.

Senior level undergraduate course covering various topics on information security. Covers a wide range of topics, such as cryptographic primitives, security protocols, system security, and emerging topics. Elementary knowledge of mathematical logic and discrete probability theory needed, such as COMP SCI/MATH/COMP SCI 240.

**Requisites:** COMP SCI 537 or graduate or professional standing or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**COMP SCI 679 – COMPUTER GAME TECHNOLOGY**

3 credits.

Survey of software technology important to computer games and other forms of interactive technology. Real-time image generation, managing complex geometric models, creating virtual characters, simulating physical phenomenon, networking technology for distributed virtual environments.

**Requisites:** COMP SCI 559 or graduate or professional standing or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**COMP SCI 681 – SENIOR HONORS THESIS**

3 credits.

Individual study for seniors completing theses for honors in the Computer Sciences major as arranged with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**COMP SCI 682 – SENIOR HONORS THESIS**

3 credits.

Individual study for seniors completing theses for honors in the Computer Sciences major as arranged with a faculty member. Continuation of COMP SCI 681

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**COMP SCI 691 – SENIOR THESIS**

2-3 credits.

Individual study for seniors completing theses as arranged with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**COMP SCI 692 – SENIOR THESIS**

2-3 credits.

Individual study for seniors completing theses as arranged with a faculty member, continuation of COMP SCI 691

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014



**COMP SCI 698 – DIRECTED STUDY**

1-6 credits.

Directed study projects for juniors and seniors as arranged with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**COMP SCI 699 – DIRECTED STUDY**

1-6 credits.

Directed study projects for juniors and seniors as arranged with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**COMP SCI 701 – CONSTRUCTION OF COMPILERS**

3 credits.

Principles of the design and implementation of programming languages. Topics include: Principles of compilation, static program analysis, compilation methods to support profiling, and code-generation methods. Knowledge of programming languages and compiler design strongly encouraged, such as COMP SCI 536.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**COMP SCI 703 – ADVANCED TOPICS IN PROGRAMMING LANGUAGES AND COMPILERS**

3 credits.

Formal methods for program verification. Model-checking techniques; linear temporal logic; computational tree logic; logic/automata connection; bisimulations; probabilistic model-checking. Special topics include: program synthesis, verification of synthesis and privacy properties. Knowledge of programming languages and compiler design strongly encouraged, such as COMP SCI 536.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI 704 – PRINCIPLES OF PROGRAMMING LANGUAGES**

3 credits.

Introduction to principles of advanced programming languages and programming-language theory. Topics include: lambda-calculus, functional languages, polymorphic functions, type inference, structural induction, lazy evaluation, operational semantics, denotational semantics, and axiomatic semantics. Students are strongly encouraged to have knowledge of programming languages, such as from COMP SCI 536.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**COMP SCI 706 – ANALYSIS OF SOFTWARE ARTIFACTS**

3 credits.

Advanced course covering various analysis techniques used in software engineering. Covers techniques for analyzing various software artifacts. Some of the topics that will be covered are: model checking, testing, program analysis, requirements analysis, and safety analysis. Students are strongly encouraged to have knowledge of programming languages and compiler design, such as COMP SCI 536, and a basic knowledge of mathematical logic.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI/E C E 707 – MOBILE AND WIRELESS NETWORKING**

3 credits.

Design and implementation of protocols, systems, and applications for mobile and wireless networking, particularly at the media access control, network, transport, and application layers. Focus is on the unique problems and challenges presented by the properties of wireless transmission, various device constraints such as limited battery power, and node mobility. Knower of computer networking is strongly encouraged, such as from COMP SCI 640 or E C E 537.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI 710 – COMPUTATIONAL COMPLEXITY**

3 credits.

Study of the capabilities and limitations of efficient computation. Relationships between models representing capabilities such as parallelism, randomness, quantum effects, and non-uniformity; and models based on the notions of nondeterminism, alternation, and counting, which capture the complexity of important problems. Knowledge of the theory of computation is strongly encouraged, such as COMP SCI 520.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**COMP SCI/MATH 714 – METHODS OF COMPUTATIONAL MATHEMATICS I**

3 credits.

Development of finite difference methods for hyperbolic, parabolic and elliptic partial differential equations. Analysis of accuracy and stability of difference schemes. Direct and iterative methods for solving linear systems. Introduction to finite volume methods. Applications from science and engineering. Students are strongly encouraged to have programming skills (e.g. COMP SCI 200) and some undergraduate numerical analysis (e.g. MATH/COMP SCI 514 or COMP SCI 412), analysis and differential equations (e.g. MATH 322 and MATH 521) and linear algebra (e.g. MATH 341)

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMP SCI/MATH 715 – METHODS OF COMPUTATIONAL MATHEMATICS II**

3 credits.

Introduction to spectral methods (Fourier, Chebyshev, Fast Fourier Transform), finite element methods (Galerkin methods, energy estimates and error analysis), and mesh-free methods (Monte-Carlo, smoothed-particle hydrodynamics) for solving partial differential equations. Applications from science and engineering. Applications from science and engineering. Students are strongly encouraged to have programming skills (e.g. COMP SCI 200), undergraduate numerical analysis (e.g. MATH/COMP SCI 514 or COMP SCI 412), analysis (MATH 322 and math 521) and linear algebra (e.g. MATH 341 or equiv.)

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**COMP SCI/I SY E 719 – STOCHASTIC PROGRAMMING**

3 credits.

Stochastic programming is concerned with decision making in the presence of uncertainty, where the eventual outcome depends on a future random event. Topics include modeling uncertainty in optimization problems, risk measures, stochastic programming algorithms, approximation and sampling methods, and applications. Students are strongly encouraged to have knowledge of linear programming (e.g., CS/ISyE/MATH/COMP SCI/I SY E/STAT 525) and probability and statistics (e.g., MATH/STAT 431). Knowledge of integer optimization (CS/I SY E/MATH/COMP SCI/I SY E 728) is helpful, but not required.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**COMP SCI/I SY E 723 – DYNAMIC PROGRAMMING AND ASSOCIATED TOPICS**

3 credits.

General and special techniques of dynamic programming developed by means of examples. Shortest-path algorithms. Deterministic equipment replacement models. Resource allocation problem. Traveling-salesman problem. Knapsack problem. Analysis of inventory systems. General stochastic formulations. Markovian decision processes. Students are strongly encouraged to have knowledge of mathematical optimization (e.g., COMP SCI/I SY E/MATH/STAT 525, I SY E 623, COMP SCI/I SY E/MATH/STAT 726), knowledge of analysis (e.g., MATH/STAT 431 or 521) and programming ability (e.g., COMP SCI 200 or 301)

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**COMP SCI/I SY E/MATH/STAT 726 – NONLINEAR OPTIMIZATION I**

3 credits.

Theory and algorithms for nonlinear optimization, focusing on unconstrained optimization. Line-search and trust-region methods; quasi-Newton methods; conjugate-gradient and limited-memory methods for large-scale problems; derivative-free optimization; algorithms for least-squares problems and nonlinear equations; gradient projection algorithms for bound-constrained problems; and simple penalty methods for nonlinearly constrained optimization. Students are strongly encouraged to have knowledge of linear algebra (e.g. MATH 320, MATH 433) and familiarity with basic mathematical analysis.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**COMP SCI/I SY E 727 – CONVEX ANALYSIS**

3 credits.

Convex sets in finite-dimensional spaces: relative interiors, separation, set operations. Convex functions: conjugacy, subdifferentials and directional derivations, functional operations, Fenchel-Rockafellar duality. Applications to operations research and related areas. Students taking this course are strongly encouraged to have had a course in basic analysis (e.g. MATH 521) and a course in linear algebra (e.g., MATH 340).

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**COMP SCI/I SY E/MATH 728 – INTEGER OPTIMIZATION**

3 credits.

Introduces optimization problems over integers, and surveys the theory behind the algorithms used in state-of-the-art methods for solving such problems. Special attention is given to the polyhedral formulations of these problems, and to their algebraic and geometric properties. Applicability of Integer Optimization is highlighted with applications in combinatorial optimization. Key topics include: formulations, relaxations, polyhedral theory, cutting planes, decomposition, enumeration. Students are strongly encouraged to have knowledge of Linear Programming (e.g., COMP SCI/I SY E/MATH/COMP SCI/I SY E/STAT 525), including algorithms, duality and polyhedral theory.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**COMP SCI/I SY E/MATH 730 – NONLINEAR OPTIMIZATION II**

3 credits.

Theory and algorithms for nonlinearly constrained optimization. Relevant geometric concepts, including tangent and normal cones, theorems of the alternative, and separation results. Constraint qualifications. Geometric and algebraic expression of first-order optimality conditions. Second-order optimality conditions. Duality. Nonlinear programming algorithms: merit functions and filters; interior-point, augmented Lagrangian, and sequential quadratic programming algorithms.

**Requisites:** COMP SCI/I SY E/MATH/STAT/COMP SCI/I SY E/MATH 726**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**COMP SCI 731 – ADVANCED ARTIFICIAL INTELLIGENCE**

3 credits.

Learning and hypothesis formation; knowledge acquisition; deductive and inductive inference systems; reasoning techniques involving time, nonmonotonic reasoning, spatial reasoning, truth maintenance systems; planning strategies.

**Requisites:** Comp Sci 540 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2011**COMP SCI 733 – COMPUTATIONAL METHODS FOR LARGE SPARSE SYSTEMS**

3 credits.

Algorithms and theory for large scale systems in engineering and science, with emphasis on sparse matrices and iterative methods. Students are strongly encouraged to have knowledge of data structures (e.g., COMP SCI 367 or COMP SCI 300), numerical analysis (e.g., COMP SCI 412, E C E 334), and linear and matrix algebra (e.g., MATH 340).

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2012**COMP SCI 736 – ADVANCED OPERATING SYSTEMS**

3 credits.

Advanced topics in operating systems, including process communication, resource allocation, multiprocess and network operating systems, kernel philosophies, fault-tolerant systems, virtual machines, high-level language systems, verifiability and proof techniques.

**Requisites:** Comp Sci 537 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMP SCI 737 – COMPUTER SYSTEM PERFORMANCE EVALUATION AND MODELING**

3 credits.

Statistical techniques of computer system performance evaluation and measurement. System selection and tuning strategies. Deterministic and probabilistic models of process scheduling and resource allocation. Analytic and simulation models of computer systems. Systematic study of system architectures. Students are strongly encouraged to have knowledge of advanced calculus (e.g., MATH 222), and operating systems (e.g., COMP SCI 537)

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2008**COMP SCI 739 – DISTRIBUTED SYSTEMS**

3 credits.

Basic concepts; distributed programming; distributed file systems; atomic actions; fault tolerance, transactions, program and data replication, recovery; distributed machine architectures; security and authentication; load balancing and process migration; distributed debugging; distributed performance measurement; distributed simulation techniques; distributed applications; correctness considerations and proof systems.

**Requisites:** COMP SCI 736**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMP SCI 740 – ADVANCED COMPUTER NETWORKS**

3 credits.

Advanced topics in computer communications networks: congestion and flow control; routing; rate-based protocols; high speed interfaces and technologies: metropolitan area networks; fast packet switching technologies; advanced applications; network services: name service, authentication, resource location. Students are strongly encouraged to have knowledge of computer network design and protocols (e.g., COMP SCI 640)

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017

**COMP SCI 744 – BIG DATA SYSTEMS**

3 credits.

Issues in the design and implementation of big data processing systems, including: an overview of cluster architecture, key design goals (flexibility, performance and fault tolerance), popular execution frameworks, basic abstractions, and applications (e.g., batch analytics, stream processing, graph processing, and machine learning).

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMP SCI 747 – ADVANCED COMPUTER SYSTEMS ANALYSIS TECHNIQUES**

3 credits.

A survey of advanced analytical modeling techniques for performance analysis of computer systems. Techniques covered include discrete-parameter (embedded) Markov Chains, M/G/1 queues, stochastic Petri nets, queueing networks, renewal theory, and sample path analysis. Application areas include high performance computer architectures, databases, and operating system resource allocation policies. Students are strongly encouraged to have knowledge of computer system modeling (e.g., COMP SCI 547)

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2011**COMP SCI/E C E 750 – REAL-TIME COMPUTING SYSTEMS**

3 credits.

Introduction to the unique issues in the design and analysis of computer systems for real-time applications. Hardware and software support for guaranteeing timeliness with and without failures. Resource management, time-constrained communication, scheduling and imprecise computations, real-time kernels and case studies. Students are strongly encouraged to have knowledge of computer architecture (e.g., COMP SCI/E C E/COMP SCI 552) and operating system functions (e.g., COMP SCI 537)

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**COMP SCI/E C E 752 – ADVANCED COMPUTER ARCHITECTURE I**

3 credits.

Processor design, computer arithmetic, pipelining, multi-operation processors, vector processors, control units, precise interrupts, main memory, cache memories, instruction set design, stack machines, busses and I/O, protection and security. Students are strongly encouraged to have knowledge of computer architecture (e.g., COMP SCI/E C E/COMP SCI 552).

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMP SCI/E C E 755 – VLSI SYSTEMS DESIGN**

3 credits.

Overview of MOS devices and circuits; introduction to integrated circuit fabrication; topological design of data flow and control; interactive graphics layout; circuit simulation; system timing; organizational and architectural considerations; alternative implementation approaches; design project. E C E 555 or equivalent experience is strongly recommended.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**COMP SCI/E C E 756 – COMPUTER-AIDED DESIGN FOR VLSI**

3 credits.

Broad introduction to computer-aided design tools for VLSI, emphasizing implementation algorithms and data structures. Topics covered: design styles, layout editors, symbolic compaction, module generators, placement and routing, automatic synthesis, design-rule checking, circuit extraction, simulation and verification. Students are strongly encouraged to have programming skills and to have taken a course in Digital System Fundamentals such as E C E/COMP SCI 352.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMP SCI/E C E 757 – ADVANCED COMPUTER ARCHITECTURE II**

3 credits.

Parallel algorithms, principles of parallelism detection and vectorizing compilers, interconnection networks, SIMD/MIMD machines, processor synchronization, data coherence, multis, dataflow machines, special purpose processors. Students are strongly encouraged to have knowledge of computer architecture (e.g., COMP SCI/E C E/COMP SCI 552).

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**COMP SCI 758 – ADVANCED TOPICS IN COMPUTER ARCHITECTURE**

3 credits.

Advanced topics in computer architecture that explore the implications to architecture of forthcoming evolutionary and revolutionary changes in application demands, software paradigms, and hardware implementation technologies. Students are strongly encouraged to have knowledge of computer architecture (e.g., COMP SCI/E C E/COMP SCI 552).

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016

**COMP SCI/E C E/ M A/E P/M E 759 – HIGH PERFORMANCE COMPUTING FOR APPLICATIONS IN ENGINEERING**  
3 credits.

An overview of hardware and software solutions that enable the use of advanced computing in tackling computationally intensive Engineering problems. Hands-on learning promoted through programming assignments that leverage emerging hardware architectures and use parallel computing programming languages. Students are strongly encouraged to have completed COMP SCI 367 or COMP SCI 400 or to have equivalent experience.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI 760 – MACHINE LEARNING**  
3 credits.

Computational approaches to learning: including inductive inference, explanation-based learning, analogical learning, connectionism, and formal models. What it means to learn. Algorithms for learning. Comparison and evaluation of learning algorithms. Cognitive modeling and relevant psychological results. Students are strongly encouraged to have knowledge of introductory artificial intelligence (e.g., COMP SCI 540).

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI/E C E 761 – MATHEMATICAL FOUNDATIONS OF MACHINE LEARNING**  
3 credits.

Mathematical foundations of machine learning theory and algorithms. Probabilistic, algebraic, and geometric models and representations of data, mathematical analysis of state-of-the-art learning algorithms and optimization methods, and applications of machine learning. Students should have taken a course in statistics and a course in linear algebra (e.g., STAT 302 and MATH 341).

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI 764 – TOPICS IN DATABASE MANAGEMENT SYSTEMS**  
3 credits.

Implementation of database management systems, the impact of new technology on database management systems, back-end database computers, distributed database management systems, concurrency control, and query execution in both distributed and centralized systems, implementation of multiple user views, roll-back and recovery mechanisms, database translation. Students are strongly encouraged to have knowledge of database design (e.g., COMP SCI 564).

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI 765 – DATA VISUALIZATION**  
3 credits.

Principles of the visual presentation of data. Survey of Information Visualization, Scientific Visualization, and Visual Analytics. Design and evaluation of visualizations and interactive exploration tools. Introduction to relevant foundations in visual design, human perception, and data analysis. Encodings, layout and interaction. Approaches to large data sets. Visualization of complex data types such as scalar fields, graphs, sets, texts, and multi-variate data. Use of 2D, 3D and motion in data presentations. Implementation issues.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COMP SCI 766 – COMPUTER VISION**  
3 credits.

Fundamentals of image analysis and computer vision; image acquisition and geometry; image enhancement; recovery of physical scene characteristics; shape-from techniques; segmentation and perceptual organization; representation and description of two-dimensional objects; shape analysis; texture analysis; goal-directed and model-based systems; parallel algorithms and special-purpose architectures. Students are strongly encouraged to have basic proficiency in calculus and linear algebra, such as MATH 340, and basic programming such as COMP SCI 300 or COMP SCI 367.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**COMP SCI/B M I 767 – COMPUTATIONAL METHODS FOR MEDICAL IMAGE ANALYSIS**

3 credits.

Study of computational techniques that facilitate automated analysis, manipulation, denoising, and improvement of large-scale and high resolution medical images. Design and implementation of methods from computer Vision and Machine Learning to efficiently process such image data to answer biologically and clinically meaningful scientific questions. Students are strongly encouraged to have programming skills and basic proficiency in calculus and linear algebra, such as MATH 340.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**COMP SCI 769 – ADVANCED NATURAL LANGUAGE PROCESSING**

3 credits.

Develop algorithms and mathematical models for natural language processing tasks, including text categorization, information retrieval, speech recognition, machine translation, and information extraction. Focus is on the state-of-the-art computational techniques as they are applied to natural language tasks. Students are strongly encouraged to have knowledge of introductory artificial intelligence (e.g., COMP SCI 540).

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2013**COMP SCI/ED PSYCH/PSYCH 770 – HUMAN-COMPUTER INTERACTION**

3 credits.

Principles of human-computer interaction (HCI); human subjects research methods and procedures, qualitative and quantitative data analysis; and semester-long research project situated in critical domains of HCI, including applications in ubiquitous, affective, assistive, social, and embodied computing.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMP SCI/B M I 776 – ADVANCED BIOINFORMATICS**

3 credits.

Advanced course covering computational problems in molecular biology. The course will study algorithms for problems such as: modeling sequence classes and features, phylogenetic tree construction, gene-expression data analysis, protein and RNA structure prediction, and whole-genome analysis and comparisons.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**COMP SCI 777 – COMPUTER ANIMATION**

3 credits.

Survey of technical issues in the creation of moving and dynamic computer imagery. Principles of animation. Manual motion specification and keyframing. Procedural and simulation-based motion synthesis.

Motion capture processing, editing and use. Animation systems.

Modeling, rendering and video issues relating to animation. Image-based animation methods and warping. Applications of animation such as games and virtual environments. Basic introduction to artistic issues in animation, such as cinematography. Special effects for film and video.

Students are strongly encouraged to have knowledge of computer graphics (e.g., COMP SCI 559)

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2013**COMP SCI 784 – FOUNDATIONS OF DATA MANAGEMENT**

3 credits.

Foundational concepts in databases and data management. The first part of the course discusses topics on query languages (conjunctive queries, Datalog), their expressivity and complexity of evaluation. The second part studies advanced topics in modern data management, including data streams, massive parallelism, provenance, uncertain data management and privacy. There are no specific course prerequisites.

It is strongly encouraged that the students are familiar with databases and relational algebra (COMP SCI 564 or equivalent). Knowledge of algorithms, complexity theory and probability will also be helpful.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**COMP SCI 787 – ADVANCED ALGORITHMS**

3 credits.

Advanced paradigms for the design and analysis of efficient algorithms, including the use of randomness, linear programming, and semi-definite programming. Applications to data structures, approximating NP-hard optimization problems, learning, on-line and distributed problems.

Students are strongly encouraged to have introductory knowledge of algorithms (e.g., COMP SCI 577)

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**COMP SCI 790 – MASTER'S THESIS**

1-9 credits.

**Requisites:** Grad st; Master's candidates only**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**COMP SCI 799 – MASTER'S RESEARCH**

1-9 credits.

Survey of algorithms and design paradigms for exact arithmetic, as used in public-key cryptography, computer algebra, and pseudo-random number generation. Topics include primality testing, factorization of integers and polynomials, discrete logarithms, and (optionally) elliptic curves and integer lattices. Students are strongly encourage to have knowledge of basic abstract algebra (e.g., MATH 541), and intermediate programming ability (e.g., COMP SCI 367 or COMP SCI 300).

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COMP SCI 809 – MATHEMATICAL TECHNIQUES IN THE ANALYSIS OF ALGORITHMS**

3 credits.

Techniques for quantitative analysis of algorithms. Charging arguments, amortization, probabilistic methods. Adversary and information lower bounds. Use of methods from combinatorics, complex analysis, and asymptotics in obtaining precise analyses of quicksort, chained hashing, and other algorithms. Students are strongly encouraged to have knowledge of algorithms (e.g., COMP SCI 577) or applied math analysis (e.g., MATH 321) and theory of probability (e.g., MATH/STAT 431).

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2009**COMP SCI 812 – ARITHMETIC ALGORITHMS**

3 credits.

Survey of algorithms and design paradigms for exact arithmetic, as used in public-key cryptography, computer algebra, and pseudo-random number generation. Topics include primality testing, factorization of integers and polynomials, discrete logarithms, and (optionally) elliptic curves and integer lattices. Students are strongly encourage to have knowledge of basic abstract algebra (e.g., MATH 541), and intermediate programming ability (e.g., COMP SCI 367 or COMP SCI 300).

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**COMP SCI/MATH 837 – TOPICS IN NUMERICAL ANALYSIS**

3 credits.

Advanced topics in numerical analysis relevant to current research at UW. Each offering of the course will cover a topic selected by the instructor. Topics vary and may include fluid dynamics, computational methods, mathematical biology and others.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**COMP SCI 838 – TOPICS IN COMPUTING**

1-3 credits.

Advanced topics of special interest to students in various areas of Computer Science. Each offering of the course will cover a topic selected by the instructor. Credit varies by offering. Check with the department to determine how an offering counts toward degree requirements.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**COMP SCI 839 – CORE TOPICS IN COMPUTING**

3 credits.

Topics selected from advanced areas.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**COMP SCI/B M I/PSYCH 841 – COMPUTATIONAL COGNITIVE SCIENCE**

3 credits.

Studies the biological and computational basis of intelligence, by combining methods from cognitive science, artificial intelligence, machine learning, computational biology, and cognitive neuroscience. Requires ability to program.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**COMP SCI/E C E 861 – THEORETICAL FOUNDATIONS OF MACHINE LEARNING**

3 credits.

Advanced mathematical theory and methods of machine learning. Statistical learning theory, Vapnik-Chevronenkis Theory, model selection, high-dimensional models, nonparametric methods, probabilistic analysis, optimization, learning paradigms.

**Requisites:** COMP SCI/E C E/COMP SCI 761 or E C E 830**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**COMP SCI 880 – TOPICS IN THEORETICAL COMPUTER SCIENCE**

3 credits.

Advanced topics in algorithms, complexity, and cryptography. The exact topic varies.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**COMP SCI 899 – PRE-DISSERTATOR RESEARCH**

1-9 credits.

Independent research supervised by a faculty member for students who have completed a master's degree but have not reached dissertator status.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COMP SCI 900 – ADVANCED SEMINAR IN COMPUTER SCIENCE**

1 credit.

Seminar on recent research on various aspects of computer science.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COMP SCI/B M E/B M I/BIOCHEM/CBE/GENETICS 915 – COMPUTATION AND INFORMATICS IN BIOLOGY AND MEDICINE**

1 credit.

Participants and outside speakers will discuss current research in computation and informatics in biology and medicine. This seminar is required of all CIBM program trainees.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COMP SCI 990 – DISSERTATION**

1-6 credits.

Advanced level mentored reading and research for students with dissertator status.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COMP SCI 999 – DISSERTATOR RESEARCH**

1-6 credits.

Advanced level mentored reading and research for dissertators.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CONSUMER SCIENCE (CNSR SCI)****CNSR SCI 111 – FINANCIAL LIFE SKILLS FOR UNDERGRADUATES**

1 credit.

Applied personal finance course to provide undergraduates in their first two years of college (freshman and sophomores) the knowledge and tools needed to successfully manage personal finances during their college years. Topics include financial values and behaviors, credit and student loans, housing, transportation, financial services, and spending and saving plans.

**Requisites:** Freshman or Sophomore standing only**Repeatable for Credit:** No**Last Taught:** Fall 2017**CNSR SCI/RELIG ST 173 – CONSUMING HAPPINESS**

3 credits.

As the saying goes, money can't buy happiness – but in modern America, we certainly try. This course will provide an overview of the study of happiness and well-being, examine how consumers engage in consumption in pursuit of happiness, as well as explore the emergence of the experience economy, and the intersection of money and well-being. Students will read academic and popular pieces on positive psychology, prosocial spending and explore the psychology of persuasion in the promises associated with this industry. In addition to integrating visual media, students will have the opportunity to experience first-hand whether the advice works in their own lives.

**Requisites:** None**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CNSR SCI 201 – CONSUMER RESEARCH & ANALYSIS**

3 credits.

This course provides basic training in quantitative data analysis, with an emphasis on descriptive and inferential statistics with consumer research applications.

**Requisites:** STAT 301, GEN BUS 303, CE SOC/SOC/C&E SOC 360, or GEOG 360**Repeatable for Credit:** No**Last Taught:** Fall 2017**CNSR SCI 250 – RETAIL LEADERSHIP SYMPOSIUM**

1 credit.

Provides detailed examination of careers in the retailing industry. High level industry experts from leading companies in the retailing industry participate as guest speakers and panel members.

**Requisites:** None**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**CNSR SCI 251 – FINANCIAL SERVICES LEADERSHIP SYMPOSIUM**

1 credit.

Provides detailed examination of careers in the financial services industry. High level industry experts from leading companies in the financial services industry participate as guest speakers and panel members.

**Requisites:** None**Repeatable for Credit:** Yes, for 2 number of completions**Last Taught:** Fall 2017**CNSR SCI 255 – CONSUMER FINANCIAL SERVICES INNOVATION**

3 credits.

This course allows students to experience the current financial services market from the perspective of real families and then to design, develop and evaluate innovative solutions to improve service or address unmet needs.

**Requisites:** None**Repeatable for Credit:** No**CNSR SCI 257 – INTRODUCTION TO RETAILING**

2 credits.

Foundational knowledge of the retail industry including the retailing process, the evolution of the industry, key drivers and trends to provide students with a framework and set of concepts that will support the remainder of the core retail courses.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**CNSR SCI 273 – FINANCES & FAMILIES**

3 credits.

For the majority of Americans, money and family life is intertwined. This course will educate future financial planners on the basics of relationship formation and dissolution, gender and family dynamics and the psychology of money with the goal of encouraging financial equality among members of families of all types.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CNSR SCI 275 – CONSUMER FINANCE**

3 credits.

An introduction to concepts and methods used in personal and family financial planning. Methods for planning and allocating resources to attain specific financial objectives are discussed. Topics include investments in real and financial assets, consumer credit issues, and insurance, pension, tax, and estate planning.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**CNSR SCI 299 – INDEPENDENT STUDY**

1-3 credits.

Directed study projects for freshmen and sophomores as arranged with a faculty member.

**Requisites:** Consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**CNSR SCI 301 – ADVANCED CONSUMER ANALYTICS**

3 credits.

By the end of this semester, you will be able to leverage data analysis to drive consumer business decisions via the telling of a compelling, evidence-based story. The course is structured 1) to provide you with a core process by which data analysis can produce effective business actions, 2) to build your analytical abilities to execute the process and 3) to establish a method by which analytical results can be transformed into effective stories. The process and methods studied in this course will have application across a broad range of careers.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**CNSR SCI 321 – FINANCIAL LIFE SKILLS FOR LIFE AFTER GRADUATION**

1 credit.

This is an applied personal finance course that provides students nearing graduation (juniors and seniors) the knowledge and tools needed to successfully manage personal finances after college. Topics include financial values and behaviors, credit and student loans, housing, transportation, financial services, retirement planning, investing, and spending and saving plans. Not open to graduate students

**Requisites:** Junior standing.**Repeatable for Credit:** No**Last Taught:** Fall 2017**CNSR SCI 340 – BUILDING FINANCIAL ASSETS AND CAPABILITY FOR VULNERABLE FAMILIES**

3 credits.

This course prepares students to help assess and prevent household financial problems and improve financial security. Based on the context of vulnerable households, financial services and public policy, this course focuses on skills related to managing cash flow, credit and debt, saving for emergencies and long-term goals.

**Requisites:** Satisfied Communications A requirement**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**CNSR SCI 350 – MEDIATION: A MECHANISM FOR SERVING THE CONSUMER INTEREST**

3 credits.

Will examine the area of dispute resolution for consumer complaints mediated by consumer affairs professionals. Discussion of how mediation empowers the consumer interest; consumer complaint behavior, and areas of dispute in industry and government will be integral parts of this course.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**CNSR SCI 355 – FINANCIAL COACHING**

3 credits.

Financial coaching is an approach influenced by the fields of positive psychology and behavioral economics to help individuals build financial capability. This experiential course will prepare students for financial, social work, and asset building services.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CNSR SCI 360 – SUSTAINABLE AND SOCIALLY JUST CONSUMPTION**

3 credits.

Examines how consumers influence sustainability and social justice through their purchases and how policy and globalization influence their choices. Students conduct original consumer research, and present their findings in an oral presentation and a research paper.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CNSR SCI 370 – COMPUTER APPLICATIONS IN RETAILING**

3 credits.

Application of computer technology and analysis within the retailing environment. Topics include: merchandise inventory control and distribution, trend analysis and forecasting, electronic POS systems, credit authorization and control, store design and planning, and ethical issues.

**Requisites:** CNSR SCI 257

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**CNSR SCI/HDFS 465 – FAMILIES & POVERTY**

3 credits.

This course introduces students to research at the intersection of family and poverty studies. We will learn how family behaviors vary by socioeconomic status; how romantic relationships, childbearing, and childrearing may be implicated in poverty; what the consequences of poverty are for family functioning and children; and about the role of policy in influencing families and poverty.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**CNSR SCI 470 – HISTORY OF CONSUMER MOVEMENTS IN THE UNITED STATES**

3 credits.

A survey of the historical interpretations and analyses of consumer activist efforts in the United States from the mid-nineteenth century to the late twentieth century.

**Requisites:** Sophomore standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**CNSR SCI 475 – FAMILY ECONOMICS**

3 credits.

Analysis of the family as a unique economic unit in the changing American economy.

**Requisites:** ECON 101 or 111

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**CNSR SCI 477 – THE CONSUMER AND THE MARKET**

3 credits.

Analysis of the consumer's market, consumer's behavior, and government policies affecting the consumer in the American economy.

**Requisites:** ECON 101 or 111

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CNSR SCI 478 – CONSUMER INFORMATION**

3 credits.

Analysis of information available to consumers; evaluation of its sources and its quality. Examination of consumers' and consumerists' efforts to obtain information and to influence information sources. Evaluation of consumers' performances in the marketplace under conditions of incomplete information.

**Requisites:** CNSR SCI 477

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**CNSR SCI 501 – SPECIAL TOPICS**

1-3 credits.

Specialized subject matter of current interest to undergraduate students. Prerequisites vary by topic.

**Requisites:** None**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CNSR SCI 503 – PREPARATION FOR RETAILING INTERNSHIP**

1 credit.

Course prepares students for the competitive interviewing process required for retailing internship placement. Students research individual companies, analyze industry trends, and develop strategies for effective interviewing.

**Requisites:** Consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2015**CNSR SCI 527 – CONSUMER SPENDING AND SAVING OVER THE LIFECYCLE**

3 credits.

Analysis of consumer patterns of spending and saving from a lifecycle perspective. Introduces consumption theory and economic, social and psychological factors affecting consumption patterns.

**Requisites:** Must have Junior standing and completion of Consumer Science 275**Repeatable for Credit:** No**Last Taught:** Fall 2016**CNSR SCI 555 – CONSUMER STRATEGY & EVALUATION**

3 credits.

Leveraging a combination of design thinking and strategic planning, students will design a clear plan of action with compelling evidence for expected outcomes, implement the proposed plan with contingencies for the inevitable challenges and adjustments, and evaluate impact relative to goals with objective recommendations for future action.

**Requisites:** Junior standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CNSR SCI 560 – RETAIL PROMOTION**

3 credits.

Developing store image through visual merchandising, advertising, sales, and other promotional activities.

**Requisites:** CNSR SCI 257**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**CNSR SCI 561 – RETAIL CHANNEL STRATEGY & OMNI-CHANNEL RETAILING**

3 credits.

This course immerses students in the effective design of retail channel strategies, where channels include physical stores, ecommerce, mobile, television and catalog. Special attention is paid to the ways in which retailers and consumers leverage more than one channel to create innovative and relevant experiences to enhance value and relationships. Students leverage the SoHE Digital Sandbox to experience these channels firsthand, constructing and testing their own omnichannel retail experiences..

**Requisites:** Junior standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CNSR SCI 562 – THE GLOBAL CONSUMER**

3 credits.

Key issues in international retailing with consideration of the global consumer.

**Requisites:** CNSR SCI 257**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CNSR SCI 564 – RETAIL FINANCIAL ANALYSIS**

3 credits.

Provides tools for planning and analyzing retail financial performance. Includes elements of retail financial statements, pricing, purchasing terms and conditions, merchandise planning, inventory control, and economic factors that impact retail businesses.

**Requisites:** (ACCT I S 100, ACCT I S 300, or GEN BUS 310) and CNSR SCI 257**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CNSR SCI 565 – SEMINAR IN CONSUMER SCIENCE**

3 credits.

Analysis of the economic welfare of the family in a changing economy and current social policy issues.

**Requisites:** Senior standing**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014**CNSR SCI 567 – PRODUCT DEVELOPMENT STRATEGIES IN RETAILING**

3 credits.

Merchandise product development planning through market trend analysis, assortment planning sourcing production.

**Requisites:** CNSR SCI 257**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017

**CNSR SCI 575 – FAMILY ECONOMICS AND PUBLIC POLICY**

3 credits.

Analysis of objectives of public policies specifically concerned with the economic welfare of families as expressed or proposed in federal and state legislation; appraisal of their economic and social consequences; and analysis of the issue.

**Requisites:** ECON 101 or 111**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CNSR SCI 579 – CONSUMER POLICY ANALYSIS**

3 credits.

Analysis of consumer policies enacted and proposed at federal, state, and municipal levels; application of economic analysis to consumer laws, public policies and regulations; study of the process of creating and enforcing legislation and impacts on consumers' well-being.

**Requisites:** Junior standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CNSR SCI 601 – CONSUMER SCIENCE INTERNSHIP**

1-8 credits.

Enables students with supervised internships to earn academic credit while engaged in a professional experience in consumer science related fields. Course intended for juniors and seniors in Consumer Science.

**Requisites:** Consent of instructor**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CNSR SCI 602 – FIELD EXPERIENCE IN RETAILING**

1 credit.

Enables students with supervised field experiences to earn academic credit while engaged in a professional experience in retailing related fields. Course intended for sophomores in Retailing and Consumer Behavior.

**Requisites:** Consent of instructor**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** No**Last Taught:** Summer 2014**CNSR SCI 603 – RETAILING INTERNSHIP**

1-6 credits.

Enables students with supervised internships to earn academic credit while engaged in a professional experience in retailing related fields. Course intended for juniors and seniors in Retailing and Consumer Behavior.

**Requisites:** Consent of instructor**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CNSR SCI 627 – ADVANCED CONSUMER FINANCE**

3 credits.

Studies financial markets and instruments from the perspective of individual consumers and their portfolio decisions over their lifetime.

**Requisites:** CNSR SCI 275**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CNSR SCI 635 – ESTATE PLANNING FOR FINANCIAL PLANNERS**

3 credits.

Analysis from a financial planner's perspective of the process of planning the accumulation, conservation, and distribution of an estate, in the manner that most effectively and efficiently accomplishes an individual's personal tax and non-tax objectives.

**Requisites:** CNSR SCI 275 or ECON/FINANCE/ECON 300**Repeatable for Credit:** No**Last Taught:** Fall 2017**CNSR SCI 657 – CONSUMER BEHAVIOR**

3 credits.

Analyses from social and psychological perspectives. Motivation, perception, learning and attitude formation. Effects of social class, family structure, cultural backgrounds and reference groups.

**Requisites:** Sophomore standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CNSR SCI 665 – HOUSEHOLD RISK MANAGEMENT**

3 credits.

Application of advanced analytical techniques to examine household financial risk. Implications for financial planning of changes in family structure and earnings. Private and social insurance that guard against economic consequences of death, disability, ill health, retirement, marital dissolution. Use of financial planning software.

**Requisites:** (ECON 101 or 111) and CNSR SCI 275**Repeatable for Credit:** No**Last Taught:** Fall 2015**CNSR SCI 675 – FAMILY FINANCIAL COUNSELING**

3 credits.

Systems approach to family financial management, stressing development of interpersonal techniques by professionals who will assist individuals and families to become responsible financial managers.

**Requisites:** CNSR SCI 275 and 627**Repeatable for Credit:** No**Last Taught:** Spring 2017

**CNSR SCI 680 – SENIOR HONORS THESIS**

2-4 credits.

Individual study for seniors completing theses for Human Ecology honors degrees as arranged with a faculty member.

**Requisites:** Consent of instructor**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2011**CNSR SCI 690 – SENIOR THESIS**

2 credits.

Individual study for seniors completing theses as arranged with a faculty member.

**Requisites:** Consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 1999**CNSR SCI 699 – INDEPENDENT STUDY**

1-6 credits.

Directed study projects for juniors and seniors as arranged with a faculty member.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CNSR SCI 748 – THE ECONOMIC ORGANIZATION OF THE HOUSEHOLD**

3 credits.

Applies intermediate microeconomic theory to analyze household resource allocation decisions. Surveys current household economic decision theories and models. Life cycle analysis of goods and service consumption, intrahousehold paid work, household production and leisure time allocation, household decisions about fertility, marriage and divorce. A prior intermediate microeconomics course is recommended.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**CNSR SCI 888 – ADVANCED CONSUMER BEHAVIOR**

3 credits.

The purpose of this class is to provide graduate students with a broad-based knowledge of the consumer behavior literature. The objective of the course is to develop students as active researchers in fields that require an understanding of consumer research. A prior undergraduate or graduate course in consumer behavior is recommended.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CNSR SCI 901 – GRADUATE SPECIAL TOPICS IN CONSUMER SCIENCE**

1-3 credits.

Specialized subject matter of current interest to graduate students.

Prerequisites vary by topic

**Requisites:** Graduate or professional standing.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CNSR SCI 930 – SEMINAR IN FAMILY ECONOMIC POLICY**

3 credits.

Graduate seminar on family economic well-being and the social and consumer policies that influence economic behavior and family economic status. Topics vary each year.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CNSR SCI 960 – SEMINAR IN CONSUMER RESEARCH**

1-3 credits.

The identification of concepts, frameworks and theories used in consumer research. An introduction to and critique of selected topical areas of consumer research.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**CNSR SCI 990 – RESEARCH AND THESIS**

1-12 credits.

Independent research and writing for graduate students under the supervision of a faculty member.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CNSR SCI 999 – INDEPENDENT STUDY**

1-3 credits.

Directed study projects for graduate students as arranged with a faculty member.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



# COUNSELING PSYCHOLOGY (COUN PSY)

## COUN PSY 105 – HUMAN RESOURCES DEVELOP. AWARENESS PROCESSES-CNSL&GUID PERSPECTIVE

1 credit.

Didactic and experiential learning and exploration to provide basic understanding of inter- and intrapersonal relations. Topics include values clarification, information acquisition, skill acquisition, human relations, self-understanding, self-development, and self-evaluation. May be repeated. See Timetable for section emphasis. Open to Fr

**Requisites:** Cons inst.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## COUN PSY 110 – HUMAN RESOURCES DEVELOPMENT: CAREER STRATEGIES

1 credit.

Exploration and vocational development through didactic and experiential learning. Career education concerns the place and value of work in the individual's life span and style—development and assessment of self, an understanding of the world of work, and facilitation of decision-making, planning, and preparation. May be repeated. See Timetable for section emphasis. Open to Fr

**Requisites:** Cons inst.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## COUN PSY 115 – HUMAN RESOURCES DEVELOPMENT: EDUCATIONAL EFFECTIVENESS

1 credit.

Exploration of personal, institutional, and community resources that optimize academic success and persistence. Utilizes didactic and experiential methods to develop higher level learning, skill, and understanding. May be repeated. See Timetable for section emphasis. Open to Fr

**Requisites:** Cons inst.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## COUN PSY 125 – A WISCONSIN EXPERIENCE SEMINAR

1 credit.

Examine transition to UW Madison through exploration of the research university and the Wisconsin Experience. A variety of texts, including a novel and textbook will provide a context for discussion, writing, and experiential assignments. Twelve students per section, supportive environment.

**Requisites:** Open to Fr or transfers only

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

## COUN PSY 225 – COMING TO TERMS WITH CULTURAL DIVERSITY: INVITATION TO DIALOGUE

3 credits.

This course is designed as an introduction to social issues raised by global and national trends toward heightened contact among persons from diverse social and cultural groups. It will fulfill the ethnic studies requirement for University of Wisconsin undergraduates.

**Requisites:** Open to Fr

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

## COUN PSY 230 – RACE AND THE DEVELOPING CHILD

3 credits.

The purpose of this course is to understand children's psychological experience of racial, ethnic and cultural (REC) status, development of their understandings of REC, and implications of this development for discussing, dialoguing, and working with REC diversity with an emphasis on educational contexts.

**Requisites:** None

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

## COUN PSY 300 – SPECIAL TOPICS: COUNSELING AND COUNSELING PSYCHOLOGY

1-4 credits.

This course examines various special topics in Counseling and Counseling Psychology.

**Requisites:** None

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## COUN PSY 325 – SEMINAR: STUDENTS SEEKING EDUCATIONAL EQUITY AND DIVERSITY (SEED)

3-4 credits.

Students use personal experiences, readings, and discussions as frameworks for interrogating social, cultural, and political inequities. Students engage in dialogues and experiential activities about social differences to promote critical consciousness and intercultural competence across disciplines.

**Requisites:** So st

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COUN PSY/ELPA 350 – PEER LEADERSHIP AND MENTORSHIP WITH TRANSITIONING STUDENTS**

1 credit.

Examines student development in the first college year and strategies upper class students can utilize to be effective leaders and mentors of new students. Course textbook provides foundation for discussion, writing, and experimental assignments.

**Requisites:** Open to sophomores and above**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**COUN PSY/CHICLA 525 – DIMENSIONS OF LATIN@ MENTAL HEALTH SERVICES**

3 credits.

This service-learning course provides training for students who aspire to one of the helping, health, or mental health professions and who currently work or who envision themselves working with Latin@ populations. The course provides important frameworks for working with Latin@s, including cultural, spiritual, linguistic and historical features relevant to this population and begin to apply their knowledge in service learning placements.

**Requisites:** Junior standing or 6 credits of CHICLA**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**COUN PSY 620 – SPECIAL TOPICS IN COUNSELING AND GUIDANCE**

1-6 credits.

Instruction and/or practice in specialized counseling approaches, strategies, and techniques; working with various populations of clients served by counselors.

**Requisites:** Junior standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COUN PSY 650 – THEORY AND PRACTICE IN INTERVIEWING**

3 credits.

Theoretical bases for conducting interviews; types of interviewing; introduction to counseling and interviewing techniques. Limited opportunity to practice.

**Requisites:** Junior standing**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**COUN PSY 655 – CLINICAL COMMUNICATION SKILLS**

3 credits.

Designed to help students develop an understanding of the clinical communication process, introduce applications of this process in a variety of contexts, and practice and develop clinical communication skills. Students will gain familiarity with research and theory on communication in a variety of clinical settings. This course will provide didactic and experiential training in developing basic competencies in clinical communication and listening skills, including personal and cultural characteristics that impact the communication process.

**Repeatable for Credit:** No**COUN PSY/ELPA 665 – CAREER DEVELOPMENT THROUGHOUT THE LIFE SPAN**

3 credits.

For educators and students preparing for teaching, counseling, and administrative positions. Relationships among education, work and life style as well as factors influencing individual career development; rationale for career education and application of Wisconsin and other state models; strategies for development and evaluation of career education/ career guidance programs and activities.

**Requisites:** Junior standing**Repeatable for Credit:** No**Last Taught:** Fall 2010**COUN PSY 699 – INDEPENDENT READING**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COUN PSY/CURRIC/ED POL/ED PSYCH/ELPA/RP & SE 719 – INTRODUCTION TO QUALITATIVE RESEARCH**

3 credits.

Provides an overview of qualitative inquiry, examining assumptions, standards, and methods for generating and communicating interpretations. Methodological and theoretical works illustrate case study, ethnography, narrative, and action research. This course does not include a field method component.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**COUN PSY/ED PSYCH 723 – DEVELOPMENTAL PROCESSES ACROSS THE LIFE SPAN**

3 credits.

Life-span perspective on studying individual development from conception to death. Emphasis on multidisciplinary, multidirectional, and contextual approaches to physical, psychological, social, and intellectual developmental processes.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**COUN PSY/ED PSYCH/HDFS 726 – ETHNIC AND RACIAL DIVERSITY IN SOCIAL DEVELOPMENT**

3 credits.

Review of empirical and theoretical research on ethnic/racial diversity in social development across childhood, adolescence and early adulthood with emphasis on implications for counseling and school psychology.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**COUN PSY/PSYCH/RP & SE 729 – ADVANCED SOCIAL PSYCHOLOGY**

3 credits.

Intensive examination of theoretical conceptions in contemporary social psychology, including learning-theoretic, reinforcement, incentive, cognitive, and psychodynamic approaches, and research in selected topic areas reflecting these approaches, such as aggression, attitude formation and change, conformity, limitation and modeling, interpersonal attraction, perception of others, prosocial behavior, and social influence.

**Requisites:** Grad st or Sr st and cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**COUN PSY/RP & SE 730 – PROFESSIONAL COUNSELING ORIENTATION**

3 credits.

Provides a broad understanding of professional counselor roles and functions. Also provides a broad understanding of the ethical and legal standards for professional counselors. Students will familiarize themselves with the ACA Code of Ethics, as well as with credentialing standards and organizations relevant to the practice of mental health counseling.

**Requisites:** Declared in a Rehabilitation Psychology or Counseling Psychology graduate program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**COUN PSY/ED PSYCH/RP & SE 735 – LEGAL AND ETHICAL BASES OF COUNSELING AND PSYCHOLOGY**

3 credits.

Legal and ethical issues for psychologists, with an emphasis on the APA ethics code and Wisconsin statutes relevant to psychological research and practice.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**COUN PSY/ED PSYCH/RP & SE 736 – SEMINAR IN PSYCHOLOGY OF INDIVIDUAL DIFFERENCES**

3 credits.

Graduate-level seminar in the psychology of individual differences, providing broad and general coverage of theory and research related to individual and cultural differences.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**COUN PSY/ED PSYCH/RP & SE 737 – SEMINAR IN HISTORY AND SYSTEMS OF PSYCHOLOGY**

3 credits.

Graduate-level seminar in the history of psychology, providing broad and general coverage of the development of psychology as a scientific discipline. Includes coverage of philosophy of science and systems of psychological inquiry, with applications to current research in psychology.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**COUN PSY 740 – ABNORMAL BEHAVIOR AND PSYCHOPATHOLOGY**

3 credits.

This course covers the research and theory of abnormal psychology, including etiology, manifestation, and diagnosis of mental health disorders. The course emphasizes research on developmental psychopathology and cultural issues in assessment and diagnosis.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017

**COUN PSY 745 – CLINICAL MENTAL HEALTH COUNSELING: DIAGNOSIS AND TREATMENT PLANNING FOR COUNSELORS**

3 credits.

Students examine the treatment and practice implications of different mental health diagnoses and adjustment disorders. The course reviews advanced principles of mental health diagnoses based on DSM 5 and ICD 10 nomenclatures and contextualizes this review for the practice of counseling applied and adapted for a diversity of clients and communities. Additionally, counseling strategies are reviewed for challenges with adjustment within various sociocultural contexts. Students will review empirically supported interventions for specific disorders as well as common factors that have been empirically supported as efficacious across disorders. This course includes an examination of the cultural foundation of the counseling profession's and clients' explanatory models for (a) psychological and mental health distress as well as (b) healing and treatment strategies.

**Requisites:** Declared in Counseling Psychology or Counseling**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**COUN PSY 755 – SEMINAR ON META-ANALYSIS**

3 credits.

Meta-analysis is a set of techniques for synthesizing the results of multiple studies addressing the same research question. Students in the class will learn the method as they conduct a "mini" meta-analysis in an area of interest. Students should have some grounding in statistics in the social sciences, particularly sampling theory and hypothesis testing.

**Requisites:** ED PSYCH 761**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**COUN PSY 777 – CRISIS AND TRAUMA COUNSELING**

3 credits.

Course focuses on counseling approaches that effectively address crises and trauma, exploring the impact of trauma and crisis and potential neurobiological responses, the development of skills and techniques for assessment and intervention in specific crisis or trauma situations including suicide assessment and intervention.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**COUN PSY/CURRIC/ED POL/ED PSYCH/ELPA/RP & SE 788 – QUALITATIVE RESEARCH METHODS IN EDUCATION: FIELD METHODS I**

3 credits.

Introductory field methods experience in qualitative research. Students will learn to define good research questions, determine which methods of data collection and analysis are useful for addressing those questions, engage in these methods, reflect on their utility in education research.

**Requisites:** CURRIC/ED POL/RP SE/COUN PSY/ELPA/ED PSYCH/COUN PSY/CURRIC/ED POL/ELPA/RP & SE 719**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**COUN PSY/CURRIC/ED POL/ED PSYCH/ELPA/RP & SE 789 – QUALITATIVE RESEARCH METHODS IN EDUCATION: FIELD METHODS II**

3 credits.

Focus on data analysis and translation of finds and implications. Students will gain theoretical and practical knowledge and skills regarding coding and analysis techniques, use of qualitative analytic tools, strategies for sharing findings with audiences beyond research team.

**Requisites:** Students must have taken Curric/Ed Pol/RPSE/Coun Psych/ELPA/Ed Psych 788.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**COUN PSY 791 – FOUNDATIONS OF CLINICAL MENTAL HEALTH COUNSELING**

3 credits.

History development of profession; professional ethics; credentialing; major theories models; roles; and principles including prevention, intervention, consultation, education, advocacy, systems promoting mental health and well-being.

**Requisites:** Dept major or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**COUN PSY 800 – THEORIES OF COUNSELING**

3 credits.

Historical and philosophical foundations of counseling. Examination of individual counseling theories, research, roles and practices within the counseling profession.

**Requisites:** Dept major or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**COUN PSY 801 – ASSESSMENT AND TESTING IN MENTAL HEALTH COUNSELING**

3 credits.

Reviews the procedures, approaches, theories, and applications associated with the educational and psychometric appraisal of groups and individuals; methods for collecting and evaluating data including validity, reliability and other psychometric properties; social and cultural and other factors associated with evaluating individuals and groups.

**Requisites:** Dept major or consent of instructor; course in measurement or statistics

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**COUN PSY 802 – GROUP DYNAMICS PROCESSING AND COUNSELING**

3 credits.

Course reviews practice, theory, and research on group development, dynamics, and group counseling theories; group leadership styles; basic and advanced group counseling methods and skills; and other group approaches.

**Requisites:** Couns Psy 800 805 or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**COUN PSY 803 – GUIDANCE PROGRAM PLANNING AND MANAGEMENT**

3 credits.

Consultation and guidance program planning and management from an institutional perspective. Special emphasis given to students at risk and legal and ethical aspects of counseling in K-12 settings.

**Requisites:** Dept majors or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**COUN PSY 804 – RESEARCH AND EVALUATION IN MENTAL HEALTH COUNSELING**

3 credits.

Reviews research design, implementation, report writing, and publication; basic statistics; program evaluation; needs assessment; and ethical and legal considerations..

**Requisites:** Statistics course dept major or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2015

**COUN PSY 805 – HELPING RELATIONSHIPS AND TECHNIQUES**

3 credits.

Understanding and development of basic and advanced helping, interviewing, and counseling skills; consultation theory and application; development of counselor and client self understanding; facilitation of client or consultee change.

**Requisites:** Department major or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COUN PSY 806 – SUPERVISED PRACTICUM IN COUNSELING I**

3 credits.

**Requisites:** Dept major, Couns Psy 800, 805 Master's prgm approval

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**COUN PSY 807 – SUPERVISED PRACTICUM IN COUNSELING II**

2-5 credits.

Continuation of 806.

**Requisites:** Couns Psy 802, 665, or 865, 806 Master's prgm approval

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**COUN PSY 808 – SUPERVISED PRACTICUM IN COUNSELING III: ADVANCED**

2-5 credits.

Continuation of 807.

**Requisites:** Couns Psy 807 Master's prgm approval

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COUN PSY 810 – PROFESSIONAL DEVELOPMENT AND CLINICAL PRACTICE**

1-6 credits.

Full-time involvement. Various assignments. Requires participation in a concurrent seminar.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**COUN PSY 825 – COUNSELING PSYCHOLOGY TECHNIQUES WITH FAMILIES**

3 credits.

Approaches to counseling intervention for families across the life-cycle. Specific attention paid to family stress.

**Requisites:** Dept major or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**COUN PSY/RP & SE 850 – CONSULTATION PROCEDURES FOR COUNSELORS**

3 credits.

A systematic investigation of and the application of consultation procedures for counselors in educational, community, and rehabilitative agencies. Consultation as applied with individuals and organizational structures.

**Requisites:** Cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**COUN PSY 860 – SOCIAL AND CULTURAL FOUNDATIONS OF COUNSELING**

3 credits.

Review of theory and research into social identity and cultural foundations of counseling including: (a) the societal context for bias, discrimination and differential treatment of sociocultural groups including but not limited to diversity of sexual orientation, gender expression, social class, cultural/ethnic/racial groups, ability status among other groups; (b) human diversity in social norms, cultural values, social identities, as well as intergroup and intragroup relations; (c) counselors' roles in developing cultural competence, reducing bias and discriminatory treatment of subgroups, and advocating for social justice; and (d) the practice implications of for providing cultural competence in serving across forms of sociocultural diversity.

**Requisites:** Department major or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**COUN PSY 865 – LIFESTYLE AND CAREER DEVELOPMENT**

3 credits.

Theoretical and practical foundations relating to the practice of lifestyle and career counseling, career guidance, and career development.

**Requisites:** Grad standing in counseling or counseling psych or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**COUN PSY 890 – ADVANCED ASSESSMENT TECHNIQUES IN COUNSELING PSYCHOLOGY**

3 credits.

Methods commonly employed by counseling psychologists in the assessment of the problems of living of normal adults. Diagnostic assessment and assessment of career interests, personality, behavior, and social environment. Development of written individual assessment reports.

**Requisites:** Couns Psy 801 or equiv; doctoral stdt in counseling, rehabilitation or school psychology or related studies; or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**COUN PSY 900 – COUNSELING PSYCHOLOGY PRACTICUM-- FOUNDATIONAL**

2-6 credits.

Foundational practicum and seminar in counseling psychology. D. prgm approval. Lec 1: Foundational Lec 2: Advanced (2 sem of lec 1)

**Requisites:** Couns Psy 808 or equiv, Ph.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COUN PSY 901 – COUNS PSYCH PRACT: GROUP COUNSELING, CONSULTATION, COLLEGE TEACHING**

1-6 credits.

Supervised practice in group counseling, consultation, and/or college teaching with a focus on psychosocial development and human relations. Majors in coun psych, rehab psych, school psych or minor in CP

**Requisites:** Cons inst Couns Psy 952 for grp couns; Couns Psy 850 for consultn.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COUN PSY 902 – COUNSELING PSYCHOLOGY PRACTICUM IN SUPERVISION**

2-6 credits.

Practicum in supervising counselor trainees in laboratory and field settings. May be repeated

**Requisites:** Couns Psy 900 953, or cons inst.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**COUN PSY 903 – COUNSELING PSYCHOLOGY PRACTICUM--ADVANCED**

3 credits.

Advanced practicum and topical seminar in counseling psychology.

**Requisites:** Coun Psy 900**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**COUN PSY 904 – COUNSELING PSYCHOLOGY EXTERNSHIP**

1-3 credits.

Advanced training in counseling psychology assessment, intervention, and/or supervision. g., preparation for preliminary examination, progress on disseration)

**Requisites:** Coun Psy 903, sufficient progress toward degree completion (e.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COUN PSY 905 – RESEARCH PRACTICUM IN COUNSELING PSYCHOLOGY**

3 credits.

Supervised research experience in the field of counseling psychology. Students will read about, discuss, and practice research skills that are critical at various phases of the research design and implementation process.

**Requisites:** Coun Psy 950, 1 course in Introductory Statistics

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**COUN PSY/RP & SE 925 – SEMINAR IN COUNSELING PSYCHOLOGY**

3 credits.

History, ethical and professional issues and problems, and current status of the psychological specialty of counseling psychology.

**Requisites:** Couns psych or rehab psych special ed majors or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**COUN PSY 926 – LEGAL AND ETHICAL BASES OF COUNSELING PSYCHOLOGY**

3 credits.

Examination of ethical codes, statutes, administrative rules, statnards for providers, and cases which regulate the practice of professional psychology and the role of the counseling psychologist. D. stdts or cons inst

**Requisites:** Dept Ph.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COUN PSY/ED PSYCH/RP & SE 944 – INTERNSHIP PREPARATION**

1 credit.

Primary goal of this course is to help students in Counseling Psychology, Rehabilitation Psychology Special Education, and the School Psychology Program prepare for their internship by providing recourses, guidelines, and support in selecting and applying to internship sites.

**Requisites:** Dissertator status in the department

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**COUN PSY 950 – RESEARCH METHODS IN COUNSELING PSYCHOLOGY**

2-3 credits.

Historical, philosophical, descriptive, experimental, case-study and other models of research in counseling psychology. D. stdts Ed Psych 760 or equiv; or cons inst

**Requisites:** Dept Ph.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**COUN PSY 951 – COUNSELING PSYCHOLOGY RESEARCH IN INDIVIDUAL INTERVENTION**

2-3 credits.

Theory and research related to the counseling dyad.

**Requisites:** Couns Psy 950 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**COUN PSY 953 – COUNSELING PSYCHOLOGY RESEARCH IN TRAINING AND SUPERVISION**

2-3 credits.

Theory and research in the preparation and supervision of counselors and counseling psychologists.

**Requisites:** Couns Psy 900 950 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**COUN PSY 954 – SEMINAR: TOPICAL RESEARCH IN COUNSELING PSYCHOLOGY**

2-3 credits.

Special topics in counseling psychology are announced each semester and listed in the Timetable.

**Requisites:** COUN PSY 950

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**COUN PSY 956 – SEMINAR: RESEARCH IN VOCATIONAL PSYCHOLOGY AND CAREER DEVELOPMENT**

2-3 credits.

Theory and research in vocational behavior and career development.

**Requisites:** Couns Psy dept major Couns Psy 665 or equiv; or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2008**COUN PSY 960 – RESEARCH METHODS IN COUNSELING PSYCHOLOGY, II**

3 credits.

Advanced training in research methods in counseling psychology to build skills in conceptualization, research design, data analysis and interpretation.

**Requisites:** Coun Psy 950, Ed Psych 761 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**COUN PSY 990 – RESEARCH OR THESIS**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COUN PSY/ED PSYCH/PSYCH/RP & SE 995 – PREDOCTORAL INTERNSHIP**

0 credits.

Registration for Ph.D. students who have successfully defended the dissertation and are in the process of completing the required predoctoral internship.

**Requisites:** Successful dissertation defense**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**COUN PSY 999 – INDEPENDENT READING**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CURRICULUM AND INSTRUCTION (CURRIC)****CURRIC 209 – DIGITAL MEDIA AND LITERACY**

3 credits.

This course is about digital media in all of its forms - from Wikipedia to YouTube mashups to mobile apps - and how these new ways of doing and making are related to learning. Over the course of semester we will explore theories of knowing and learning as they relate to digital media.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Spring 2017**CURRIC 240 – CRITICAL ASPECTS OF TEACHING, SCHOOLING, AND EDUCATION**

3 credits.

This course investigates aspects of social justice and equity as they relate to teaching, schooling and education.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 243 – PRACTICUM IN WORLD LANGUAGES (K-12)**

3 credits.

Systematic observation and participation in world language classes (French, German, or Spanish) in the public school.

**Requisites:** Adm to K-12 world lang educ prog; passing the oral proficiency exam in target lang; or cons inst**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 277 – VIDEOGAMES & LEARNING**

3 credits.

Explores current research on videogames and learning. Students critically reflect on the intellectual and educational merits and drawbacks of videogames and how videogame culture shapes how individuals think and learn.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 290 – PRACTICUM IN SECONDARY SCIENCE EDUCATION**

3 credits.

School-based experiences in science classes prior to student teaching. Attention given to planning, instruction, laboratory management and evaluation.

**Requisites:** Adm to secondary science educ prgm**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014

**CURRIC 296 – PRACTICUM IN SECONDARY SCHOOL ENGLISH**  
3 credits.

Systematic observation and involvement in English instruction, grades 6-12.

**Requisites:** Adm to secondary English educ prgm

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

**CURRIC/MUSIC 300 – INTRODUCTION TO MUSIC EDUCATION**  
2 credits.

Introduction to the field of music education, including philosophy, history, and current practices and trends. Survey of music education in and out of schools as situated within diverse, pluralistic communities.

**Requisites:** CURRIC/MUSIC/CURRIC 303 or concurrent enrollment

**Course Designation:** Breadth - Either Humanities or Social Science  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CURRIC/MUSIC 301 – MUSIC LEARNING AND TEACHING 1**  
2 credits.

The learning and teaching of music at the elementary and middle school levels. Admission to the music education certification program. Concurrent enrollment in CURRIC/MUSIC/CURRIC 337

**Requisites:** Successful completion of CURRIC/MUSIC/CURRIC 300.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CURRIC/MUSIC 302 – MUSIC LEARNING AND TEACHING 2**  
2 credits.

The learning and teaching of music at the high school level. Concurrent enrollment in CURRIC/MUSIC/CURRIC 337

**Requisites:** Successful completion of CURRIC/MUSIC/CURRIC 301 with a grade of "C" or higher.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CURRIC/MUSIC 303 – FIELDWORK IN MUSIC COMMUNITIES**  
1 credit.

Fieldwork in music communities in the Madison area.

**Requisites:** CURRIC/MUSIC/CURRIC 300 or concurrent enrollment

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CURRIC/MUSIC 304 – COMPOSITION, ARRANGEMENT, AND ORCHESTRATION FOR THE MUSIC TEACHER**  
2 credits.

Introduction to the teaching of musical composition, arrangement, and orchestration. Special emphasis on how music technologies interact with conceptions of composition, arrangement, and orchestration; implications for music learning and teaching.

**Requisites:** Successful completion of MUS-PERF 104 or equivalent

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CURRIC 305 – INTEGRATING THE TEACHING OF READING WITH OTHER LANGUAGE ARTS**  
3 credits.

Theory, research and instructional practices supporting the teaching of reading, writing, speaking and listening skills in an integrated curriculum from kindergarten through grade twelve. SPE, con reg in CURRIC 370 374 required

**Requisites:** SPE, Com Dis, Art Ed, Mus Ed, Phy Ed, or cons inst.

**Course Designation:** Gen Ed - Communication Part B

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CURRIC 309 – READING AND WRITING ACROSS THE CONTENT AREAS**  
3 credits.

Prepares prospective teachers of children 8/9 to 12/13 to teach reading and writing across all content areas.

**Requisites:** Admission to the MC-EA Content Area Focused Elementary Education Program

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CURRIC 311 – LANGUAGE ACQUISITION AND USE IN AND OUT OF SCHOOLS, MIDDLE CHILDHOOD THROUGH EARLY ADOLESCENCE**  
3 credits.

Focuses on forms and features of English language, and language used in and out of schools. Students explore theories of second language acquisition, school-based language practices, and how to support language development for English learners.

**Requisites:** Admission into the MC-EA program

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CURRIC 312 – ESL/BILINGUAL ISSUES**  
3 credits.

This course addresses social, cultural, and educational issues related to schooling for young English learners. It provides an overview of multiple factors that impact teaching and learning for these students. These issues include (but are not limited to): theories relating to language use and learning; registers and varieties of English; program structures and designs; school and classroom environments, and connections between families and schools.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CURRIC 314 – BECOMING LITERATE IN AND OUT OF SCHOOLS**

3 credits.

Surveys critical issues related to literacy for early childhood teachers including early literacy and language learning, insights into cultural differences related to literacy and language, and knowledge of the social dimensions of literacy.

**Requisites:** Declared in the Elementary Education program**Repeatable for Credit:** No**Last Taught:** Spring 2017**CURRIC 315 – READING AND WRITING ACROSS THE CURRICULUM IN EARLY CHILDHOOD**

3 credits.

Provides early childhood educators with information, strategies, and activities for instructing young children with literacy. Teachers explore the multiple sources of information that young readers must orchestrate as they learn to read.

**Requisites:** CURRIC 314**Course Designation:** Gen Ed - Communication Part B**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 316 – ESL/BILINGUAL METHODS**

3 credits.

Designed to help students identify/develop methodological approaches and techniques that coordinate instructional practice with current theories on language and learning. Students will develop criteria for designing, implementing, and evaluating appropriate lessons and materials that integrate with classroom curricula and goals.

**Requisites:** Admission to the Middle Childhood-Early Adolescence (MC-EA)/ESL Certification Program**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 317 – DIMENSIONS OF LITERACY**

3 credits.

Surveys critical literacy issues for elementary teachers. Provides understandings related to literacy and language learning, insights into cultural differences related to literacy and language, and knowledge of the social dimensions of literacy. Addresses various theories that inform literacy teaching including deficit versus strength models of literacy learning, meaning-based models, systematic instruction, and sociocultural approaches.

**Requisites:** Admission to the Middle Childhood-Early Adolescence (MC-EA)/ESL Certification Program**Repeatable for Credit:** No**Last Taught:** Spring 2017**CURRIC 318 – TEACHING READING AND WRITING**

3 credits.

Designed to provide elementary educators with information and instructional strategies to support literacy learning. Addresses a wide range of literacy abilities including reading, writing, comprehending, and decoding. Focuses on the continuing developmental processes associated with becoming competent readers and writers.

**Requisites:** None**Course Designation:** Gen Ed - Communication Part B**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC/CHICLA 321 – CHICANO/LATINO EDUCATIONAL JUSTICE**

3 credits.

Addresses the ways Chican@s/Latin@s in contemporary U.S. society have engaged in social, cultural, political, and ideological struggles for educational justice. The course begins with a broad overview of educational issues and examines major social movements, legal cases, and local and national efforts that have established important precedents. Focus on different enactments of resistance, struggle, resilience, self-determination, and educational justice and focus on how these precedents and enactments pertain to teaching, learning, and curriculum practices that reflect key tenets of educational justice for Chican@/Latin@ students.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC/ART ED 322 – INFORMATION DESIGN FOR VISUAL LEARNING**

3 credits.

Building a foundation in art, design, and visual culture, students will develop information design skills enabling them to create visual presentation tools using a wide variety of digital software and hardware as well as traditional media for instruction and learning.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Spring 2014**CURRIC/ART ED 323 – ART IN ELEMENTARY EDUCATION**

3 credits.

Basic principles and problems in teaching art; basis for an understanding and evaluation of children's art work. May not be taken con with Curric/Art Ed 324

**Requisites:** Jr st adm to Elem or Art TC Prog, or Educ Spec, or cons inst.**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC/ART ED 324 – ART IN SECONDARY EDUCATION**

3 credits.

Methods and philosophies of teaching art; problems in implementing theories in practical situations in junior and senior high schools.

**Requisites:** Jr st cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017

**CURRIC 325 – EDUCATING YOUNG ENGLISH LEARNERS**

3 credits.

Addresses social, cultural, and educational issues related to schooling for young English learners. Provides an overview of multiple factors that impact teaching and learning for these students.

**Requisites:** Acceptance to the EC-ESL Certification Program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CURRIC 326 – LANGUAGE USE AND ACQUISITION IN EARLY CHILDHOOD**

3 credits.

Students will become familiar with aspects of forms and features of the English language, and language use in and out of schools. Analysis of language learning and use across settings provides tools to enhance practice.

**Requisites:** Admission to the EC-ESL Certification Program

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CURRIC 327 – METHODS OF TEACHING YOUNG ENGLISH LEARNERS**

3 credits.

This course is designed to help students identify, develop and implement methodological approaches and techniques for teaching English learners that coordinate instructional practice with current theories on language and learning.

**Requisites:** Admission to Early Childhood-ESL Certification Program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CURRIC 328 – ARTISTIC LIVES OF CHILDREN**

3 credits.

Prepares prospective teachers of children ages 4/5 to ages 8/9 to teach about the arts and to develop children's artistic selves.

**Requisites:** Admission to the Early Childhood/ English as a Second Language Elementary Education Program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CURRIC 332 – TEACHING CHORAL MUSIC IN THE SECONDARY SCHOOL**

2 credits.

Materials and methods; organizing and administering the choral program; effective teaching and rehearsal techniques for choral groups.

**Requisites:** Admission to Music Ed; con reg in CURRIC/MUSIC 337; or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**CURRIC/MUSIC 337 – PRACTICUM IN TEACHING MUSIC**

1 credit.

Observation and participation in K-12 music education settings.

**Requisites:** Admission to Music Education; concurrent registration in CURRIC/MUSIC/CURRIC 301 or CURRIC/MUSIC/CURRIC 302

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CURRIC 338 – THE LANGUAGE OF SCHOOLING**

3 credits.

Addresses aspects of forms, features and functions of the English language, including an understanding of multiple varieties and registers of English, and how language use functions in and out of schools.

Attention to the use of dual/multiple languages by emergent bilinguals, relationships between first and additional languages, and supporting students to develop repertoires that include forms of language for school success.

**Requisites:** Admission to the Middle Childhood- Early Adolescence (MC-EA)/ESL Certification Program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CURRIC 339 – CULTURAL FOUNDATIONS OF LEARNING AND DEVELOPMENT**

3 credits.

Addresses core ideas of learning theory and human development focusing on the middle childhood population. Explores how learning and development are necessarily situated in local and global contexts, offering a cultural frame for understanding the work of teachers.

**Requisites:** Admission to the Middle Childhood-Early Adolescence (MC-EA)/ESL teacher certification program

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CURRIC 340 – ELEMENTARY EDUCATION PRACTICUM ONE**

3 credits.

In this practicum and its corresponding seminar, students explore the various relationships among education, curriculum, and instruction across contexts of home, community and school. Practica sites are in preschools, neighborhood centers, and after-school sites serving children from diverse backgrounds.

**Requisites:** Admission to the elem educ prog

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CURRIC 342 – TEACHING WORLD LANGUAGES (K-8)**

3 credits.

An undergraduate course in semester two or three of a four-semester certification sequence; success in first semester courses as well as 'Intermediate High' minimum oral proficiency level in the target language are required.

**Requisites:** Adm to French, German or Spanish TC prog con reg in CURRIC 243; passing oral proficiency exam

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CURRIC 343 – TEACHING WORLD LANGUAGES (6-12)**

3 credits.

Theories, principles, and practical applications of instructional strategies and curriculum development for teaching a world language (Spanish, German, French, etc.) in secondary schools.

**Requisites:** Adm to world lang TC prog con reg in CURRIC 243; passing the oral proficiency exam in target lang; or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CURRIC/MUSIC 344 – TEACHING VOCAL STYLES IN THE MUSIC CLASSROOM**

1 credit.

Introduction to the teaching and learning of diverse vocal styles. Special emphasis on what makes each style distinct, as well as the acquisition practices associated with each style.

**Requisites:** None**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**CURRIC/MUSIC 354 – TEACHING MUSIC**

3 credits.

Development of musical skills and understandings. Ways of including music in the curriculum.

**Requisites:** EED and completion of previous sequence coursework**Repeatable for Credit:** No**Last Taught:** Fall 2013**CURRIC 358 – PRACTICUM IN SOCIAL STUDIES IN THE SECONDARY SCHOOL**

3 credits.

**Requisites:** Adm to secondary social studies educ prog**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014**CURRIC 359 – TEACHING OF HISTORY AND THE OTHER SOCIAL STUDIES**

3 credits.

**Requisites:** Admission to intern program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 361 – PRACTICUM IN MATHEMATICS IN THE SECONDARY SCHOOL**

3 credits.

Observation and participation in high school and middle school mathematics classes. Students assume some responsibility for planning and instruction in a class.

**Requisites:** Adm to secondary math educ prog**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014**CURRIC/SLAVIC/THEATRE 362 – DRAMA FOR TEACHING AND LEARNING**

3 credits.

This is a methods course useful for all involved in teaching and learning, including foreign languages. Introduction to philosophy, methodology, and practice of the use of drama and performance techniques in any educational or recreational settings. Focus on creativity and embodied and contextual learning, based on current neurological, psychological, and sociological research. A practical class which includes demonstration and practice with children.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 363 – PRACTICUM IN EARLY CHILDHOOD EDUCATION IN KINDERGARTEN**

1-3 credits.

For undergraduate preschool-kindergarten majors. Reserve two mornings, two afternoons, or one day for observation-participation in classrooms.

**Requisites:** CI 550 or con reg**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 364 – INTRODUCTION TO EDUCATION**

3 credits.

Nature of teaching; fundamental issues which confront the teacher and bases for making decisions; overview of the program, field trips to educational sites.

**Requisites:** EED**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC/RP & SE 365 – TEACHING MATHEMATICS IN INCLUSIVE SETTINGS**

4 credits.

Designed to introduce preservice teachers to a variety of approaches for teaching mathematics to students in inclusive schools.

**Requisites:** Admission to certification program or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017



**CURRIC 366 – INTERNATIONALIZING EDUCATIONAL KNOWLEDGE**

3 credits.

Internationalizing education means both education internationalizing our thinking and the ways we perceive the world, and internationalizing the field of curriculum and instruction. The course will introduce students to various educational systems around the world, focusing on similarities and dissimilarities in what is taught. The course discussions will center on curriculum across cultures, and its relation to political systems and religions to build an understanding of diversity in societies and schools. The topics will include local and indigenous knowledge; the role of international agencies in comparing nation's school systems; the rise of private schools and universities; immigration and the changing borders of society and cultures in the curriculum; questions of sexuality and gender diversity, diversity of families and social exclusions and inequalities in elementary and secondary schools. International and local speakers with multiple perspectives will be invited to explore issues of education as well as international opportunities for its study.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**CURRIC 367 – ELEMENTARY TEACHING PRACTICUM II**

3 credits.

Students will observe, supervise small groups, develop lesson plans for instruction, and teach a series of lessons in the related subject matter of reading, language arts, children's literature, and inclusive schooling.

**Requisites:** EED; CURRIC 364**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 368 – THE TEACHING OF READING**

3 credits.

This course examines the psycholinguistics of reading; reading in social and cultural contexts in schools, families, communities, and workplaces; and the politics of reading. The course provides strategies for teaching all children to read.

**Requisites:** Declared in Elementary Education program**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 369 – THE TEACHING OF LANGUAGE ARTS**

3 credits.

This course focuses on written and oral language development of children from infancy through early adolescence. It explores the cognitive, social, cultural, and political implications of literacy education.

**Requisites:** Declared in Elementary Education program**Course Designation:** Gen Ed - Communication Part B**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 370 – TEACHING MATHEMATICS**

3 credits.

Students in this course investigate the mathematics in the elementary school curriculum, how critical mathematics concepts and skills are learned, and how those concepts can be taught.

**Requisites:** MATH 130, 131; EED (completion of previous sequence coursework) or SPE**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 371 – TEACHING SOCIAL STUDIES**

3 credits.

This course examines recent trends in the field of social studies. Students are challenged to develop social studies curricula and instructional strategies that help prepare children for active citizenship in a democratic, multicultural, technological society.

**Requisites:** EED and completion of previous sequence coursework**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 372 – TEACHING SCIENCE**

3 credits.

Students will explore how children learn science, how to create classrooms where children learn to inquire, and how to assess children's learning. Students will conduct their own inquiries as the basis for considering these issues.

**Requisites:** EED and completion of previous sequence coursework**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 373 – ELEMENTARY TEACHING PRACTICUM III**

3 credits.

Students will observe, supervise small groups, develop lesson plans for instruction, and teach a series of lessons relating theories of learning with the subject matter of mathematics and art.

**Requisites:** EED; CURRIC 367, 368, 369, 422 Curric/RP & SE/CURRIC 506**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 374 – GENERAL EDUC PRACTICUM & INSTRUCTIONAL PLANNING FOR DIVERSE LEARNERS**

2-5 credits.

In this practicum and seminar students develop lesson plans, design an integrated curriculum unit, and employ active and collaborative learning strategies in general education classrooms.

**Requisites:** Adm to Spec Educ TC Prog; Jr st con reg in CURRIC 305 370**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** No**Last Taught:** Spring 2017**CURRIC 375 – PROSEMINAR**

1-3 credits.

An ad hoc seminar for the exploration of new frontiers in curriculum and instruction.

**Requisites:** None**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**CURRIC 390 – TEACHING OF SCIENCE IN SECONDARY SCHOOLS**

3 credits.

Con reg in CURRIC 290 or cons inst

**Requisites:** Admission to Secondary Science Certification Progm.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 393 – THE TEACHING OF SECONDARY SCHOOL MATHEMATICS****I**

3 credits.

This course provides an introduction to issues associated with mathematics curriculum and instruction in secondary schools. Instructional strategies, classroom management, and assessment of learning are examined in the context of current and reformed curricula.

**Requisites:** Adm to secondary program**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 394 – THE TEACHING OF SECONDARY SCHOOL MATHEMATICS****II**

3 credits.

This secondary methods course provides a more indepth examination of the issues associated with mathematics curriculum and instruction in secondary schools. A special emphasis is on curriculum choices and assessment practices.

**Requisites:** CURRIC 393**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CURRIC 395 – USES OF TECHNOLOGIES IN SECONDARY SCHOOL MATHEMATICS**

3 credits.

Introduces students to the calculator and computer technologies used in secondary school mathematics and to the ways these technologies can be used effectively in mathematics instruction.

**Requisites:** Admission to SED/Math cert prgm; at least 3 required Math/Stats crses at 300 level or above; and a 4th required crse in Math/Stats or con reg**Repeatable for Credit:** No**Last Taught:** Fall 2014**CURRIC 396 – TEACHING OF ENGLISH**

3 credits.

**Requisites:** Admission to English Educ cert progm; con enrl in CURRIC 296**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 399 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CURRIC/MUSIC 409 – STUDENT TEACHING IN GENERAL AND VOCAL MUSIC**

6-12 credits.

Supervised student teaching in general and vocal K-12 settings.  
Department consent

**Requisites:** Successful completion of all requirements for student teaching.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Workplace - Workplace Experience Course

**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC/MUSIC 410 – STUDENT TEACHING IN GENERAL AND INSTRUMENTAL MUSIC**

6-12 credits.

Supervised student teaching in general and instrumental K-12 settings.  
Department consent

**Requisites:** Successful completion of all requirements for student teaching.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Workplace - Workplace Experience Course

**Repeatable for Credit:** No**Last Taught:** Spring 2017**CURRIC/MUSIC 420 – TEACHING POPULAR INSTRUMENTAL MUSIC I**

1 credit.

Development of critical perspectives, musical knowledge, and pedagogical skills needed to teach instrumental popular music. This class will focus on popular string instruments, their electronic counterparts, and emerging technologies for the performance and production of popular music.

**Requisites:** None**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**CURRIC/MUSIC 421 – TEACHING POPULAR INSTRUMENTAL MUSIC 2**  
1 credit.

Development of critical perspectives, musical knowledge, and pedagogical skills needed to teach instrumental popular music. This class will focus on popular percussion instruments, their electronic counterparts, and emerging technologies for the performance and production of popular music.

**Requisites:** None

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CURRIC 422 – THE TEACHING OF CHILDREN'S LITERATURE**  
3 credits.

Instructional strategies and curriculum development for teaching children's literature.

**Requisites:** EED and completion of previous sequence coursework

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**CURRIC/ART ED 423 – STUDENT TEACHING IN ART IN ELEMENTARY SCHOOLS**

2-6 credits.

**Requisites:** Art Ed, CURRIC/ART ED 323

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CURRIC/ART ED 424 – STUDENT TEACHING IN ART IN SECONDARY SCHOOLS**

2-6 credits.

**Requisites:** Art Ed, CURRIC/ART ED 324

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CURRIC 425 – CONCERNS AND CONSTRAINTS IN TEACHING YOUNG CHILDREN**

3 credits.

Examines programmatic, professional, and technical forces that motivate and constrain teachers' work. Questions the assumptions and philosophies that are the foundation of various teaching practices.

**Requisites:** Jr st or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**CURRIC/THEATRE 426 – HISTORY, THEORY, AND DRAMATIC CRITICISM IN THEATRE FOR YOUNG AUDIENCES**

3-4 credits.

Historiographical perspectives in theatre for young audiences; analysis of plays for young people, theoretical implications, assumptions, current developments.

**Requisites:** THEATRE/ENGL 120 or 160 or 200 or 362 or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**CURRIC/CSCS 427 – METHODS OF TEACHING FAMILY AND CONSUMER EDUCATION**

3 credits.

Theory and principles of teaching and learning in family and consumer education.

**Requisites:** Junior standing

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**CURRIC/CSCS 428 – PROGRAM PLANNING IN FAMILY AND CONSUMER EDUCATION**

3 credits.

Theory and processes of program planning for formal and informal educational settings; relation of vocational education to secondary, adult, and continuing education programs.

**Requisites:** Junior standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CURRIC 431 – YOUNG ADULT LITERATURE FOR SCHOOLS**

3 credits.

Survey of needs and interests of young adults, with emphasis on young adult literature, reading interests, and use of trade books and other media in the junior/middle and senior high school curricula.

**Requisites:** Jr or Sr st with initial preference given SED Jrs and Srs or admission to English ed or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**CURRIC 440 – ELEMENTARY TEACHING PRACTICUM IV**

3 credits.

Students will observe, supervise small groups, develop lesson plans for instruction, and teach a series of lessons in the related subject matter of social studies, science, dance/physical education, and music.

**Requisites:** EED; CURRIC 370 373, Art Ed/CURRIC/ART ED 322, Ede Psych 301

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**CURRIC 442 – STUDENT TEACHING IN WORLD LANGUAGES (K-8)**

2-12 credits.

An undergraduate course in semester two or three of a four-semester certification sequence; success in first semester courses as well as 'Intermediate High' minimum oral proficiency level in the target language are required.

**Requisites:** Adm to French, German or Spanish TC prog CURRIC 243 342

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**CURRIC 443 – STUDENT TEACHING IN WORLD LANGUAGES (6-12)**

2-12 credits.

Practice teaching in world languages education programs (French, German, Spanish, etc.) in the secondary schools.

**Requisites:** Adm to world lang TC prog CURRIC 243 342; appl on file in Fld Exper Off, 109 Education

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CURRIC 454 – STUDENT TEACHING IN THE MIDDLE SCHOOL**

1-10 credits.

Supervised student teaching in the middle school for elementary education majors and special certification students.

**Requisites:** Adm to Elem TC Prog; CURRIC 370, 371, 372 373 or concurrent registration

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CURRIC 457 – STUDENT TEACHING IN HEALTH EDUCATION**

2-8 credits.

**Requisites:** Sr st; Curric Instr 520

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**CURRIC 458 – STUDENT TEACHING IN HISTORY AND SOCIAL STUDIES IN THE MIDDLE SCHOOL**

2-12 credits.

Supervised student teaching in the middle school. Students employ and evaluate a variety of approaches to social studies curriculum and instruction.

**Requisites:** Adm to stdt teaching prog; adv reg in 109 Educ Bldg

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CURRIC 459 – STUDENT TEACHING IN HISTORY AND SOCIAL STUDIES IN THE HIGH SCHOOL**

2-12 credits.

**Requisites:** Adm to secondary social studies educ prog

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**CURRIC 460 – INTERNATIONAL STUDENT TEACHING**

2-12 credits.

Supervised student teaching in an international location. 5 GPA

**Requisites:** Successful completion of all pre-requisite coursework for student teaching, minimum 2.

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**CURRIC/THEATRE 462 – THEATRE FOR YOUNG AUDIENCES: PRODUCTION**

3-6 credits.

A practical class: preparation and performance of a production for young audiences, with development and implementation of accompanying educational material.

**Requisites:** Cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**CURRIC 463 – SEMINAR IN PRE-KINDERGARTEN THROUGH MIDDLE SCHOOL TEACHING**

1-2 credits.

Workshop to provide an opportunity to make specific plans for the full-time teaching experience.

**Requisites:** CURRIC 371, 372, 373 and concurrent enrollment in CURRIC 464 or 454 or 468

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CURRIC 464 – STUDENT TEACHING IN THE ELEMENTARY SCHOOL**

1-10 credits.

Sect 1: For undergraduate elementary education majors and special certification students. Sect 2: For child development majors satisfying kindergarten certification.

**Requisites:** Adm to Elem or PK3 TC Prog; CURRIC 370, 371, 372 373 or con reg

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CURRIC 465 – STUDENT TEACHING IN THE KINDERGARTEN**

1-10 credits.

**Requisites:** Adm to PK3 TC Prog; CURRIC 370, 371, 372 373 or con reg

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**CURRIC 466 – STUDENT TEACHING IN MUSIC-ELEMENTARY**

2-12 credits.

**Requisites:** Adv reg in stdt teach ofc, 109 Educ**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CURRIC 467 – STUDENT TEACHING IN MUSIC-SECONDARY**

2-12 credits.

**Requisites:** Adv reg in field experience office, 109 Education**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CURRIC 468 – EARLY CHILDHOOD/ENGLISH AS A SECOND LANGUAGE STUDENT TEACHING**

5-10 credits.

Student teaching for students in the Early Childhood/English as a Second Language certification program.

**Requisites:** Admission to EC/ESL certification program; successful completion of program semesters 1 - 3**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** No**Last Taught:** Spring 2017**CURRIC/ART ED 470 – PRACTICUM IN ELEMENTARY SCHOOL ART**

3 credits.

Selection of appropriate instructional materials and their application to a practical problem in teaching to selected students.

**Requisites:** Jr st cons inst**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CURRIC/MATH 471 – MATHEMATICS FOR SECONDARY SCHOOL TEACHERS**

3 credits.

This is a capstone course for future middle and high school teachers, drawing connections between higher mathematics and school mathematics.

**Requisites:** MATH 341 or MATH 375 or MATH 421, and MATH 461**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**CURRIC 472 – STUDENT TEACHING OF ENGLISH IN THE MIDDLE SCHOOL**

2-12 credits.

Supervised student teaching in the middle school. Students employ and evaluate a variety of approaches to English curriculum and instruction.

Adv reg in Educ Academic Services Off, B117 Education Bldg

**Requisites:** Admission to English teacher cert prog.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC/KINES 478 – ELEMENTARY SCHOOL PHYSICAL EDUCATION STUDENT TEACHING**

2-8 credits.

**Requisites:** Adv reg in stdt tchg ofc, 109 Educ**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** No**Last Taught:** Spring 2017**CURRIC/KINES 479 – MIDDLE SCHOOL OR HIGH SCHOOL PHYSICAL EDUCATION STUDENT TEACHING**

2-8 credits.

**Requisites:** Adv reg in stdt tchg ofc, 109 Educ**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** No**Last Taught:** Spring 2017**CURRIC 490 – STUDENT TEACHING IN SCIENCE IN THE HIGH SCHOOL**

2-12 credits.

**Requisites:** Adm to secondary science educ prgm**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CURRIC/ART ED 493 – PRACTICUM IN SECONDARY SCHOOL ART**

3 credits.

Observation and instruction of elementary and secondary pupils in a laboratory setting. Lecture and discussion of topics related to art instruction.

**Requisites:** Art Ed 323 470**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 494 – STUDENT TEACHING IN HIGH SCHOOL MATHEMATICS**

2-12 credits.

**Requisites:** Adv reg in stdt tchg ofc, 109 Educ**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 495 – STUDENT TEACHING IN SCIENCE IN THE MIDDLE SCHOOL**

2-12 credits.

Supervised student teaching at the middle school. Students employ and evaluate a variety of approaches to science curriculum and instruction.

**Requisites:** CURRIC 290, 390; admission to cert prog; appl on file in Fld Exper Off, 109 Education**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**CURRIC 496 – STUDENT TEACHING OF ENGLISH IN THE HIGH SCHOOL**

2-12 credits.

75 in English. Adv reg in stdt tchg ofc, 109 Educ

**Requisites:** GPA of 2.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CURRIC 497 – STUDENT TEACHING IN MIDDLE SCHOOL MATHEMATICS**

4-12 credits.

Supervised student teaching at the middle school. Students employ and evaluate a variety of approaches to mathematics curriculum and instruction.

**Requisites:** Adm to secondary math educ prog**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 500 – LITERACY AND LANGUAGE DEVELOPMENT**

3 credits.

Survey and critical analysis of language and literacy development in and out of school, with a focus on the elementary school years.

**Requisites:** Grad st or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**CURRIC/KINES 501 – HEALTH INFORMATION FOR TEACHERS**

3 credits.

Basic scientific health knowledge and its application to the total school program.

**Requisites:** Junior standing or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 503 – LITERACY ACROSS THE CURRICULUM**

3 credits.

Survey and critical analysis of theories and practices for literacy development across the curriculum. Reading, writing, oral language, and technology as situated in the content areas. Focus on middle and high schools.

**Requisites:** CURRIC/MUSIC 303 or 368, or equiv, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**CURRIC 504 – LITERACY ASSESSMENT AND INTERVENTION**

3 credits.

Theories and practices in regard to assessing and intervening in literacy development for a variety of different sorts of learners, including those facing various reading or writing difficulties.

**Requisites:** None**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CURRIC/RP & SE 506 – STRATEGIES FOR INCLUSIVE SCHOOLING**

3 credits.

Comparison of historical and current practices in special education; legal, philosophical, and programmatic changes leading to inclusive models of education; emphasis on concepts of collaboration, cooperative learning structures, and curricular and instructional adaptations to accommodate learners with disabilities in general education classrooms.

**Requisites:** Sophomore standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 507 – INCLUSIVE EDUCATION IN SECONDARY SCHOOLS**

2 credits.

Comparison of historical and current practices in special education; legal, philosophical, and programmatic changes leading to inclusive models of education; emphasis on concepts of universal design for learning, methods of differentiation, collaboration among educators, and responsive instructional strategies for learners with disabilities in general education classrooms.

**Requisites:** Admission to the Secondary Education Masters Program**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 508 – IMPLEMENTING UNIVERSAL DESIGN: CURRICULUM DEVELOPMENT & ANALYSIS**

1 credit.

Participants will engage in joint inquiry and analysis of curriculum, instruction, assessment using principles of Universal Design and differentiation. Collegial dialogue protocols will be studied and utilized to interrogate previously taught or anticipated units of instruction. Outcomes of the process will be revision refinement of universally designed curricula.

**Requisites:** Admission to the Secondary Education Masters Program and completion of CURRIC 507**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No



**CURRIC 510 – COMMUNITY-BASED PRACTICUM**

1-4 credits.

Provides an opportunity for students to connect teaching and learning theory and research knowledge to the practical setting of community based settings. It allows students to explore how community education is organized and educational services are delivered. It offers the students an opportunity to begin to interact with children, and to develop their identities as educators. Supervised by a UW supervisor and community-based teacher educator, students will develop the necessary knowledge and skills required to work with students and educational professionals in a supervised community-based educational setting.

**Requisites:** Declared in the Curriculum and Instruction masters program  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Summer 2017

**CURRIC 511 – SCHOOL-BASED PRACTICUM**

1-4 credits.

Provides an opportunity for students to connect teaching and learning theory and research knowledge to the practical setting of schools. It allows students to explore how schools are organized and educational services are delivered. It offers the students an opportunity to begin to interact with students, and to develop their identities as educators. Supervised by a UW supervisor and school-based teacher educator, students will develop the necessary knowledge and skills required to work with students and educational professionals in a supervised school-based setting.

**Requisites:** Declared in the Curriculum and Instruction masters program  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Fall 2017

**CURRIC/HISTORY/JEWISH 515 – HOLOCAUST: HISTORY, MEMORY AND EDUCATION**

3 credits.

This course explores the ways in which Holocaust history, memory and education are mutually entangled, politically charged and morally complex. Using primarily American sites of memory, students will critically analyze a variety of representations of the Shoah—in literature, films, memoirs, monuments, museums and classrooms.

**Requisites:** Jr st or cons inst  
**Course Designation:** Gen Ed - Communication Part B  
 Ethnic St - Counts toward Ethnic Studies requirement  
 Breadth - Either Humanities or Social Science  
 Level - Intermediate  
 L&S Credit - Counts as Liberal Arts and Science credit in L&S  
 Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Summer 2016

**CURRIC/ED POL/RELIG ST 516 – RELIGION AND PUBLIC EDUCATION**

3 credits.

Examines theories and practices related to the role of religion in public schooling and its accompanying tensions: political and philosophical, practical and personal.

**Requisites:** Jr st or cons inst  
**Course Designation:** Breadth - Social Science  
 L&S Credit - Counts as Liberal Arts and Science credit in L&S  
 Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Spring 2016

**CURRIC/THEATRE 525 – THEATRE IN EDUCATION**

3-4 credits.

Theory and practice of theatre in elementary and secondary educational settings. Students in this course devise, script, and present programs as actor-teachers and interact with audiences.

**Requisites:** So st cons inst  
**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S  
 Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Spring 2017

**CURRIC 536 – TEACHING DIVERSE YOUTH IN SECONDARY SCHOOL**

2 credits.

Teaching Diverse Youth is designed to 1) to foster understandings of culturally relevant pedagogy and 2) to promote cultural awareness at the individual and institutional levels, and equitable and anti-racist behaviors as well as social justice in educational practices. As a class, we will examine the meanings of multicultural education and will work to understand how teachers can encourage, develop, and support learning, and create practices that establish high expectations for all learners. Students are expected to reflect on how they, the schooling they have experienced, and other social institutions participate in maintaining the hegemony and power of whiteness, middle class power, ableness, heterosexuality, and speaking English well.

**Requisites:** Students may not earn credit for both CURRIC 536 and CURRIC 537  
**Repeatable for Credit:** No  
**Last Taught:** Summer 2015

**CURRIC 537 – TEACHING DIVERSE LEARNERS**

3 credits.

This course is designed to foster cultural awareness at the individual and institutional levels, and to promote equitable and anti-racist behaviors as well as social justice in educational practices.

**Requisites:** Admission to Masters of Science in Professional Education (MSPE) program  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Summer 2017

**CURRIC/ELPA/KINES 541 – ORGANIZATION AND ADMINISTRATION OF SCHOOL HEALTH PROGRAMS**

3 credits.

Theory, philosophy, patterns, and responsibilities.

**Requisites:** CURRIC/KINES 501; admission to certificate program in elementary or secondary education or consent of instructor**Repeatable for Credit:** No**Last Taught:** Spring 2016**CURRIC/KINES 542 – TEACHER EDUCATION ABOUT ALCOHOL AND OTHER DRUGS**

3 credits.

Social and cultural factors which influence the use and abuse of alcohol and other selected psychoactive drugs. Emphasis on educational concepts and processes important for instructional planning, curriculum strategies, value clarification, evaluation of learning, and countermeasure research developments.

**Requisites:** CURRIC/KINES 501; admission to certificate program in elementary or secondary education or consent of instructor**Repeatable for Credit:** No**Last Taught:** Spring 2017**CURRIC 550 – METHODS, MATERIALS AND ACTIVITIES IN EARLY CHILDHOOD EDUCATION**

3 credits.

Activities and materials for use in preschools and kindergartens related to different models of early childhood education, to developmentally appropriate curricular goals, and to professional practices of early childhood educators.

**Requisites:** Declared in the Elementary Education program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 555 – VALUES AND CHARACTER EDUCATION**

3 credits.

An analysis of the function of values and valuing process in the social studies. Pedagogical problems associated with handling normative content and questions in the classroom.

**Requisites:** Cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2008**CURRIC 559 – ADVANCED PRACTICES IN THE TEACHING OF SOCIAL STUDIES**

3 credits.

This course assumes understanding and skill in basic classroom management, lesson and unit planning. Content will include research and practice on such topics as social studies instruction for diverse pupils, critical thinking, and authentic assessment.

**Requisites:** CURRIC 359 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CURRIC/KINES 561 – TEACHER EDUCATION IN HUMAN SEXUALITY**

3 credits.

Student teachers plan educational experiences through which children and youth can learn about human potential in sexuality.

**Requisites:** CURRIC/KINES 501; admission to certificate program in elementary or secondary education or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC/THEATRE 562 – DRAMA IN EDUCATION: ADVANCED STUDIES**

3-4 credits.

Advanced studies in theories and practices of drama in education.

**Requisites:** THEATRE/CURRIC/SLAVIC 362 or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**CURRIC 564 – ADVANCED PROBLEMS ON THE TEACHING OF WORLD LANGUAGES**

3 credits.

Recent developments in technologies and methods of teaching world languages; exploration and analysis of teaching practices; critical review of relevant literature and adaptation of materials; recent innovations in elementary and secondary world language teaching.

**Requisites:** Tchg experience or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2017**CURRIC 566 – PRACTICUM IN SPECIAL EDUCATION IN THE ARTS**

1-3 credits.

Field experience with special education students in classroom settings in music and art.

**Requisites:** Jr st in special field; completion or con reg in Curric 565; or cons inst**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**CURRIC/KINES 567 – ISSUES, MATERIALS AND METHODS IN HEALTH EDUCATION**

3 credits.

Principles, materials, and methods.

**Requisites:** CURRIC/KINES 501, 541, 542, 561 or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC/ART ED 570 – ART IN EXCEPTIONAL EDUCATION**

3 credits.

Approaches to developing programs and teaching art to exceptional students in public schools, special schools, and community institutions.

**Requisites:** Jr st 3 cr in studio art, or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2014

**CURRIC 590 – ADVANCED PRACTICES IN THE TEACHING OF SCIENCE**

3 credits.

**Requisites:** CURRIC 390 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CURRIC 596 – ADVANCED PRACTICES IN TEACHING ENGLISH IN SECONDARY SCHOOLS**

3 credits.

Using an inquiry framework in which beginning and experienced teachers act as researchers, this course will explore central issues of theory and practice in the teaching of English in middle and secondary schools.

**Requisites:** CURRIC 396 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CURRIC 604 – SEMINAR ON LITERACY**

3 credits.

Examines current research on reading, writing and varieties of oral language from perspective of sociocognitive and sociocultural literacy studies. Course deals with various theories of school, community, and workplace literacy, different approaches to literacy pedagogy and curricula, assessment practices, and interventions for learners with various needs.

**Requisites:** Grad st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CURRIC 606 – CRITICAL PERSPECTIVES ON DIGITAL MEDIA IN EDUCATION**

2-3 credits.

Critical review of literature on digital media and learning; utilization of digital media inside and outside classrooms, lab experience.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC/L I S 620 – FIELD PROJECT IN LIBRARY AND INFORMATION AGENCIES**

3 credits.

Analysis of field experience through seminars, individual conferences, required reading and consultations with cooperating librarians and information specialists. Enrollment limited.

**Requisites:** LIS 450, 451 551; electives appropriate to the proposed project; cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 626 – ACTION RESEARCH IN SCHOOLS**

3 credits.

Provides instruction and support to students who want to conduct research on their own practices in schools.

**Requisites:** Grad st or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CURRIC 630 – PROFESSIONAL DEVELOPMENT FOR SCHOOLS AND COMMUNITY EDUCATORS**

1-6 credits.

Specific construction and theoretical implications for professional in-service and field student teaching assignments. Learning materials and school systems program needs for children.

**Requisites:** None**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CURRIC 632 – LITERATURE AND LITERACY**

3 credits.

Role of literature in literacy development from pre-school to high school. Theories and practices in regard to interpretation, reader response, criticism, genres, multiculturalism, and literature for early literacy and in content learning.

**Requisites:** Open to Freshmen**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**CURRIC 635 – EPISTEMOLOGY OF MATHEMATICS FOR TEACHERS**

2 credits.

Course focuses on the nature of knowing mathematics.

**Requisites:** Must be admitted to the Graduate Secondary Teacher Education Program**Repeatable for Credit:** No**Last Taught:** Summer 2017**CURRIC 636 – MATHEMATICAL KNOWLEDGETEACHING**

3 credits.

This course addresses the mathematical concepts necessary for the effective instruction of number and generalization at the middle school level.

**Requisites:** Cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2016

**CURRIC 637 – MATHEMATICAL KNOWLEDGE FOR TEACHING: RATIOS AND PROPORTIONS**

3 credits.

This course addresses the mathematical concepts necessary for the effective instruction of rational number and proportional reasoning at the middle school level.

**Requisites:** Cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 638 – MATHEMATICAL KNOWLEDGE FOR TEACHING: GEOMETRY AND MEASUREMENT**

3 credits.

This course addresses the mathematical concepts necessary for the effective instruction of geometry, measurement, and trigonometry at the middle school level.

**Requisites:** Cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CURRIC 639 – MATHEMATICAL KNOWLEDGE FOR TEACHING: ALGEBRA AND FUNCTIONS**

3 credits.

This course addresses the mathematical concepts necessary for the effective instruction of algebra and functions at the middle school level.

**Requisites:** Cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2016**CURRIC 640 – MATHEMATICAL KNOWLEDGE FOR TEACHING: CONJECTURING AND REASONING**

3 credits.

This course addresses the mathematical concepts necessary for supporting students' abilities to conjecture, justify, and prove in middle-school mathematics.

**Requisites:** Cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**CURRIC 660 – EARLY CHILDHOOD EDUCATION**

2-3 credits.

Trends, basic principles, issues, evaluation, and curriculum planning for the group education of preschool children.

**Requisites:** Jr st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 662 – ELEMENTARY SCHOOL CURRICULUM**

3 credits.

Basic concepts of curriculum, the relation of foundation areas to the problems of curriculum development, modern trends in developing educational programs for children.

**Requisites:** Grad st or adm to 2nd deg elem TC Prog or Spec or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**CURRIC 663 – LEARNING ENVIRONMENTS FOR INITIAL EDUCATION PROGRAMS**

3 credits.

Historical residues, basic theories, and contemporary patterns of instruction underlying educational programs for the very young child (3-9). Integrating and contrasting features of comprehensive curricula for the very young: play, communication foundations, self concepts, health, performing arts, and other areas of educational concern.

**Requisites:** Junior standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 665 – EARLY CHILDHOOD EDUCATION POLICY & PRACTICE**

3 credits.

Explores theoretical, empirical and methodological perspectives that inform early childhood policy and practice in the U.S. We will examine the programs, policies, persons, institutions, and practices serving children ages birth to age eight, with particular attention on the period of age 3-6.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**CURRIC 671 – PROSEMINAR IN MUSIC EDUCATION**

2 credits.

Subject differs each semester. Current topics related to methodology in the various areas: elementary, junior high school general music, choral music in secondary schools, instrumental music.

**Requisites:** Grad st or Spec with tchg exper or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2010**CURRIC 672 – ISSUES IN ESL EDUCATION**

2-3 credits.

Overview of issues that influence and determine the language and academic development of English language learners. Students explore social, cultural and educational contexts and practices as they relate to the education of this population.

**Requisites:** Graduate standing or declared as Education Special**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017

**CURRIC 673 – LEARNING SECOND LANGUAGE AND LITERACIES**

1-6 credits.

Explores theoretical and practical aspects of second language and literacy development in schooling for English learners. Includes a fieldwork component. Informed by theories, students conduct and analyze data from classroom-based research, investigating implications for learning and teaching.

**Requisites:** Grad standing or Sp**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 674 – ADVANCED METHODS IN TEACHING ENGLISH AS A SECOND LANGUAGE**

3-6 credits.

Designed to help students identify/develop and implement methodological approaches and techniques for supporting the language and literacy development of English learners that coordinate with current theories on language and learning.

**Requisites:** Grad standing or Ed Sp, authorization required**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**CURRIC 675 – GENERAL SEMINAR**

1-3 credits.

**Requisites:** Variable**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CURRIC 676 – BILINGUALISM AND BILITERACY IN SCHOOLS**

3-4 credits.

This course addresses issues in bilingual education, including: program design; patterns of language use; effective instruction to promote dual language development and biliteracy; integrated curriculum; assessment; history and context; national and local policy. It includes a practicum component.

**Requisites:** Admission to the bilingual cert prog**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**CURRIC/ED POL 677 – EDUCATION, HEALTH AND SEXUALITY: GLOBAL PERSPECTIVE AND POLICIES**

3 credits.

Employs a lifecycle approach to examine the issues at the intersection of education and health that people face throughout the world, but especially in poor countries. Particular attention is placed on sexuality education, reproductive health, and infectious disease epidemics.

**Requisites:** None**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**CURRIC 690 – INDEPENDENT FIELD WORK**

1-9 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CURRIC 699 – INDEPENDENT READING**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CURRIC 702 – SOCIOCULTURAL THEORY**

3 credits.

Sociocultural theories posit that the fundamental mechanism for teaching and learning is social interaction. In this course, we will examine the varying positions within this general body of theoretical literature, compare and contrast how each position construes the fundamentally social nature of thinking and learning, and consider the methods entailed by each given theory.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**CURRIC 704 – CURRICULUM PLANNING**

3 credits.

The concept of curriculum in modern American education.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017



**CURRIC 706 – SECONDARY SCHOOL CURRICULUM**

3 credits.

Functions of the secondary school, recent developments and varying approaches to goals, integration and balance in the curriculum.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2012

**CURRIC/ED PSYCH 708 – THE STUDY OF TEACHING**

3 credits.

Alternative research approaches to the study of teaching; for example, process-product, aptitude treatment interaction, ethnographic.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**CURRIC 709 – DIGITAL MEDIA & TECHNOLOGY IN SCHOOLS**

1 credit.

Introduction for secondary educators to the role of digital media technologies in their classrooms. The course will cover major topics in digital media in teaching and students will be expected to design several instructional units that incorporate technology meaningfully into their classrooms.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**CURRIC 711 – CULTURE, CURRICULUM, AND LEARNING**

3 credits.

Exploration of literature and recent debates related to cultural and linguistic diversity, learning, and instruction. Discussions will focus on education within and across home, community, and school contexts, including a focus on home-school-community relationships.

**Requisites:** Summer registration is restricted to those admitted to Teach for Diversity MAT Degree Programs

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**CURRIC 712 – INTRODUCTION TO CURRICULUM AND INSTRUCTION: RESEARCH AND RESOURCES**

3 credits.

This is a required course for all new doctoral or masters students in CI in which they will become familiar with faculty, procedures, policy, and the wide range of research in this area.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CURRIC 713 – TECHNOLOGY INTEGRATION FOR TEACHING AND LEARNING**

1-3 credits.

This course provides a broad introduction to the field of Educational Communications and Technology (ECT) and attempts to balance theoretical inquiry with "hands on" design work. During the course, we will cover the theoretical foundations of ECT and explore new developments in technology, theory and practice. The goal is to open up new horizons for practicing and pre-service teachers to leverage technology for their own professional and personal empowerment through thinking systematically about technology and the classroom.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**CURRIC 714 – RESEARCH AND EVALUATION PARADIGMS IN CURRICULUM AND INSTRUCTION**

3 credits.

An analysis of differing orientations to evaluation and research. Emphasis on assumptions, attitudes, and expectations of what constitutes scientific knowledge and explanation; relationship of research orientation, methods of inquiry, theory, and practice.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CURRIC 715 – DESIGN OF RESEARCH IN CURRICULUM AND INSTRUCTION**

3 credits.

Introductory survey of empirical foundations of research. Development of methods and tools of research.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**CURRIC 716 – REFORM AND CHANGE IN CURRICULUM AND INSTRUCTION**

3 credits.

Social, political and epistemological assumptions underlying current efforts towards curriculum and instructional reform in elementary and secondary schools.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016



**CURRIC 718 – INTRODUCTION TO NARRATIVE INQUIRY**

3 credits.

The course includes material on framing, generating, gathering, and analyzing stories that people tell.

**Requisites:** Grad or special students

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CURRIC/COUN PSY/ED POL/ED PSYCH/ELPA/RP & SE 719 – INTRODUCTION TO QUALITATIVE RESEARCH**

3 credits.

Provides an overview of qualitative inquiry, examining assumptions, standards, and methods for generating and communicating interpretations. Methodological and theoretical works illustrate case study, ethnography, narrative, and action research. This course does not include a field method component.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CURRIC 720 – SCHOOL PRACTICUM IN COMMUNICATION SCIENCES & DISORDERS**

5 credits.

Supervised experience in a public/private school setting with children manifesting speech, language and/or hearing problems. The practicum shall involve evaluation and management of a variety of communicative disorders, as well as participation in the multi-disciplinary team process.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CURRIC 721 – RESEARCH IN COMPUTING EDUCATION**

3 credits.

Seminar on the history, theories, philosophies, tools, research, and technologies of Computing Education, with a focus on K-12 Computer Science Education.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**CURRIC 723 – LIFE HISTORY: THEORIES & METHODS**

3 credits.

Focuses on framing, generating, collecting, and analyzing data gathered from interviews and documents related to people's lives.

**Requisites:** Graduate or special students may take the course, no prerequisites.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CURRIC 726 – QUALITATIVE METHODS OF STUDYING CHILDREN AND CONTEXTS**

3 credits.

Examines the theoretical, methodological, and ethical issues in studying children from interpretive perspectives. A small group research project, focused on examination of an individual child and context, provides an introduction to qualitative methods within fieldwork.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**CURRIC 727 – INTERNATIONALIZING EDUCATIONAL KNOWLEDGE**

3 credits.

Starts with a simple proposition that 19th century modern school curriculum is concerned with making kinds of people: "the citizen", "a worker", "civic minded", "life-long learner", "motivated", "with grit", etc. From this premise, discussions will explore "the building (and disseminating) of knowledge" in schools (curriculum) across nations, cultures, and within political and religious modes of thought, to understand how differences in the self and others are produced through schooling. Internationalizing education means understanding how curriculum, pedagogy, theories of learning, and notions of childhood from schooling generate "ways of thinking" about "kinds of people". Internationalizing the field of curriculum and instruction shows how difference is produced and categorized. This class is to facilitate thinking about how regional and national representations of people go unexamined in school curriculums when studying "others".

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**CURRIC 729 – CLASSROOM MANAGEMENT FOR SECONDARY EDUCATORS**

1 credit.

Classroom Management for Secondary Educators is designed to inform students of basic principles of good classroom management within a social justice framework. That is, students will learn about motivating student learning through clear classroom management strategies, communicating with parents and families regarding student behavior, establishing positive teacher-student relationships, responding to challenging student behaviors, and responding to bullying.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CURRIC 731 – COLLABORATIVE TEAMWORK FOR INCLUSIVE SCHOOL REFORM**

3 credits.

The process of collaboration and its multiple forms among professionals in the creation of inclusive school communities are critically examined.

Various methods and tools for collaboration are explored that promote effective team relationships, problem solving, and co-planning of differentiated curriculum and instruction. Activities and projects are problem-based and focus on generating solutions to programmatic, student-specific, or school-wide issues related to inclusive education. Class participants acquire skills to engage in collaborative teamwork and act as change facilitators within a school system.

**Requisites:** Admission to the Masters of Science for Professional Educators program, graduate standing, or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**CURRIC 732 – FOUNDATIONS OF SCIENCE EDUCATION**

3 credits.

Examination of the interrelationships among education, science, and society in the United States since the mid-nineteenth century. Analysis of current issues and problems in science education from this historical perspective.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**CURRIC 733 – PUBLIC ENGAGEMENT WITH SCIENCE**

3 credits.

This course examines the influence of science in everyday life. It is intended to give students both academic context (research and theory) and a firsthand look at how science matters to people who are not themselves scientists.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CURRIC/STS 734 – SCIENCE STUDIES AND SCIENCE EDUCATION**

3 credits.

Examination of the key ideas from the field of science and technology studies (history, philosophy, sociology of science, etc.) and how they have been taken up in both the school science curriculum as well as the science education research community.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**CURRIC 735 – EPISTEMIC PRACTICE AND SCIENCE TEACHING**

2 credits.

This course pursues the following questions: Where does our scientific knowledge come from and how does science work to generate that knowledge? In what ways might science education meaningfully engage learners in science? This course is part of the Secondary Teacher Education Master's with Certification program for students pursuing Secondary science teacher certification. Other interested students may inquire about the course by contacting the instructor.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**CURRIC 739 – ASSESSMENT AND DATA USE FOR INSTRUCTIONAL IMPROVEMENT IN SECONDARY SCHOOLS**

1 credit.

This course will explore four themes of evidence-based practice in teaching: 1) teaching with assessment in mind, 2) assessment for learning and assessment of learning, 3) constructing, modifying, and analyzing assessment, 4) making use of data about your students to improve teaching and learning. This course is part of the Secondary Teacher Education program for students pursuing Master's with Teacher Certification.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**CURRIC 743 – EDUCATIONAL TECHNOLOGY FOR DEEP LANGUAGE LEARNING**

1-3 credits.

Critical understanding of recent developments in research related to educational technology and its implications for World Language Education and Second Language Acquisition. The course addresses the limits of instrumental reason and the need for reflective practice and theoretical wisdom for appropriate technology integration into teaching, global learning of other cultures, computer-assisted language learning (CALL), Computer-Mediated-Communication (CMC), learning languages in Multi-User Virtual Environments (MUVE), multimedia and emerging technologies in teaching languages and culture.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**CURRIC 744 – PERSPECTIVES IN MULTICULTURAL EDUCATION**

3 credits.

A critical examination of the conceptual and theoretical traditions that contribute to the educational reform and ideology known as multicultural education. Includes readings from ethnic studies, black studies, feminist theory, antiracist pedagogy, bilingual education, and critical race theory.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC/ELPA 746 – THE ADULT LEARNER: IMPLICATIONS FOR CURRICULUM AND INSTRUCTION**

3 credits.

Analysis of the principles and instructional models applicable to the instruction of adults. Attention to the integration of research on learning and teaching in informal and formal educational settings.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**CURRIC/ELPA 748 – PROSEMINAR: ISSUES & PROBLEMS IN TEACHING-LEARNING IN ADULT EDUCATION**

3 credits.

A planned, systematic analysis of basic issues; instructional group strategies, instructional modes, independent learning, etc.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2013**CURRIC/GEN&WS 760 – SEX/GENDER-RELATED ISSUES IN CURRICULUM AND INSTRUCTION**

3 credits.

A poststructural feminist analysis of educational discourse and practice; examines selected sex/gender issues in curriculum and instruction; explores some implications for classroom teaching of the complex interrelationships between sex/gender, race, social class, sexuality, and ability/disability.

**Requisites:** Cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 764 – GLOBALIZATION AND LINGUISTIC HUMAN RIGHTS IN EDUCATION**

2-3 credits.

An introduction to language instruction policies and linguistic human rights. Examines teaching and learning in a multilingual society. Explores the various dimensions of the language used in the schools for instruction in different countries during the globalization process.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 765 – GLOBALIZATION AND TEACHING: DIMENSIONS FOR CURRICULUM PLANNING**

3 credits.

Critically examines efforts to introduce teaching and curriculum on globalization in elementary and secondary schooling, as well as in teacher education.

**Requisites:** Enrolled in Departmental Global Studies, Teaching, and the Curriculum (GSTC) program or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**CURRIC 772 – LITERACY AS A CIVIL RIGHT**

3 credits.

Inspired by a symposium entitled "Literacy as a Civil Right" featured at the American Educational Research Association Annual Meeting in Chicago, Illinois in April 2007 and Stuart Greene's (2008) edited volume *Literacy as a civil right: Reclaiming social justice in literacy education*, this seminar will examine research and scholarship committed to ensuring access to critical literacies for all people and more specifically for youth who have been marginalized socially, educationally, economically, and politically in the context of the United States and abroad. Throughout this course, students will examine the significance of upholding literacy as "civil" and "human" rights. Additionally, students will also explore the consequences of this ideology by considering what counts as literacy, who gets counted among the "literate," and how language and power impact education and schooling. Topics include tensions and conflicts in the teaching and learning of literacy in urban public schools and in out-of-school settings, youth entangled school-to-prison pipeline, youth-centered research methodologies, student-centered literacy education, and future directions for the field of language, literacy, and culture.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No

**CURRIC 774 – LITERACY RESEARCH METHODS**

3 credits.

Introduction to a range of qualitative inquiry texts that examine the intersections of language, literacy, and culture. Examine ethnographies and case studies that ask questions about the literacy practices of children, youth, and adults in both schools and out-of-school contexts using critically conscious and humanizing research methodologies. Students will become knowledgeable about pivotal qualitative studies in language, literacy, and culture as they begin to develop their own identities as methodologists.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**CURRIC 778 – TEACHING, LITERACIES, AND IDENTITIES**

3 credits.

In this class, we will explore issues related to identity through three interrelated concepts—teaching, literacies, and diversity—from a variety of perspectives, including psychology, sociology, narrative studies, and sociocultural perspectives. Within each perspective we will explore what "identity" means and how each conceptualization is related to teaching and learning, especially for children from diverse communities and backgrounds.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**CURRIC/COUN PSY/ED POL/ED PSYCH/ELPA/RP & SE 788 – QUALITATIVE RESEARCH METHODS IN EDUCATION: FIELD METHODS I**

3 credits.

Introductory field methods experience in qualitative research. Students will learn to define good research questions, determine which methods of data collection and analysis are useful for addressing those questions, engage in these methods, reflect on their utility in education research.

**Requisites:** CURRIC/ED POL/RP SE/COUN PSY/ELPA/ED PSYCH/COUN PSY/CURRIC/ED POL/ELPA/RP & SE 719**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC/COUN PSY/ED POL/ED PSYCH/ELPA/RP & SE 789 – QUALITATIVE RESEARCH METHODS IN EDUCATION: FIELD METHODS II**

3 credits.

Focus on data analysis and translation of finds and implications. Students will gain theoretical and practical knowledge and skills regarding coding and analysis techniques, use of qualitative analytic tools, strategies for sharing findings with audiences beyond research team.

**Requisites:** Students must have taken Curric/Ed Pol/RPSE/Coun Psych/ELPA/Ed Psych 788.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 790 – MASTER'S PROJECT OR THESIS**

1-9 credits.

Planning and completing a master's project or thesis.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**CURRIC 799 – MASTER'S INDEPENDENT STUDY**

1-3 credits.

Student-designed opportunity to explore a subject in depth. Open to master's students.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**CURRIC 802 – DISCOURSE ANALYSIS**

3 credits.

Theories and methods for analyzing "discourse" or language in use. Covers formal and informal written text, formal and informal oral speech, and face-to-face and online social interaction, with particular focus on cultural and social institutions and norms (such as school) and learning through social interaction.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**CURRIC/ED PSYCH/L I S 803 – COMPUTATIONAL RESEARCH METHODS**

3 credits.

Provides a broad overview of ways of formulating and investigating novel questions with tools from educational data mining and learning analytics including social network analysis, natural language processing, Markov modeling, Bayesian inference, and agent-based modeling.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**CURRIC 805 – GUIDING AND DIRECTING THE SCHOOL READING PROGRAM**

3 credits.

Issues and practices in reading program development from first through twelfth grade. Emphasis on the various roles and responsibilities of instructional leaders in reading program development.

**Requisites:** Cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**CURRIC 810 – GOALS, CONTENT AND PROGRAMS IN MATHEMATICS EDUCATION**

3 credits.

Persistent issues. Analysis of current programs and the identification of the mathematical content of K-12 education.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**CURRIC 811 – THE INSTRUCTION OF MATHEMATICS**

3 credits.

Persistent issues. Analysis of current research and examination of current programs to identify how they reflect different theories of learning and instruction.

**Requisites:** CI 810 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**CURRIC 812 – CURRICULAR ISSUES IN MATHEMATICS EDUCATION**

3 credits.

Analysis of research and evaluation of programs as they operate within the school environment.

**Requisites:** CI 811 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**CURRIC/ED PSYCH 821 – CONSTRUCTIONISM**

3 credits.

This course is a survey of constructionist theory, research, and tools. Course content and activities will help students develop a deeper understanding of the history, theories, philosophies, tools, research, and technologies of constructionism and its children.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**CURRIC 829 – PROSEMINAR IN AMERICAN CURRICULUM THEORY: 1890-PRESENT**

3 credits.

Major movements in the field such as Herbartianism, scientific curriculum planning, rational decision making, group process, and structure of the disciplines. Analysis of major documents and leading figures.

**Requisites:** CURRIC 662 or 704 or 706 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**CURRIC 830 – THEORY AND DESIGN OF THE CURRICULUM**

3 credits.

Dimensions of theory and their interrelationships with reference to the curriculum field.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**CURRIC 832 – TEACHING FOR CONCEPTUAL CHANGE IN SCIENCE**

3 credits.

Examination of science teaching strategies and programs based on research into students' conceptions of natural phenomena.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**CURRIC 840 – FIELD WORK IN SCHOOL READING PROGRAMS**

2-7 credits.

Supervised field experience in working with school-wide reading programs.

**Requisites:** Cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**CURRIC/HDFS 841 – THE EDUCATIONAL ROLE OF THE FAMILY IN EARLY CHILDHOOD DEVELOPMENT**

3 credits.

Socialization practices associated with development and education in early childhood; focus on parental teaching practices which influence techniques, communication styles, and cognitive styles within the context of social class and family structure; emphasis on theory, research, and educational applications.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**CURRIC 844 – CULTURALLY RELEVANT PEDAGOGY**

3 credits.

Pedagogy that explores the relationships between culture and learning as well as teacher ideology and beliefs systems. Examines critical pedagogy and pedagogies of resistance.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**CURRIC/ED POL 855 – ISSUES IN ELEMENTARY EDUCATION**

3 credits.

Critical survey of issues and trends; their social, educational basis; implications for elementary schools; examination and analysis of major problems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**CURRIC 860 – SUPERVISION IN TEACHER EDUCATION**

1-3 credits.

For those who are or wish to be university supervisors or cooperating teachers in practicum or student teaching programs. Study and discussion of factors which enter into the supervision of prospective teachers.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**CURRIC 864 – SEMIOTICS FOR EDUCATION**

1-3 credits.

This course is dedicated to Semiotics or the study sign action for Education purpose, described as any activity or process including the production of meaning and apprenticeship.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**CURRIC 900 – ADVANCED SEMINAR IN DIGITAL MEDIA**

2-3 credits.

Survey and critical analysis of selected research and other literature in the major divisions of the field, with emphasis according to individual interest.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CURRIC 910 – SEMINAR-CURRICULUM DEVELOPMENT**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CURRIC 916 – SMR: SPECIAL TOPICS IN RESEARCH & EVALUATION IN CURRICULUM & INSTRUCTION**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CURRIC 942 – SEMINAR IN RESEARCH ON MATHEMATICS EDUCATION**

1-3 credits.

Selected investigations; design of individual research activities; advanced level.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CURRIC 943 – MOBILITY, LANGUAGE & EDUCATION**

3 credits.

Designed to engage students in consideration of and deep dialog around cutting-edge theoretical approaches and framings to languages, literacies, mobility, communication, learning and teaching globally, and to show what different perspectives may offer to understandings of language-in-use across varied global educational and life contexts.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**CURRIC 945 – SEMINAR IN MUSIC EDUCATION**

2-3 credits.

Subject differs each semester; comprehensive issues, including current views on topics such as psychology of music; sociology of music; aesthetics.

**Requisites:** Grad st or Spec with tchg exper or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2013**CURRIC 946 – PAST PERSPECTIVES ON MUSIC EDUCATION**

3 credits.

Analysis of music education in primary and secondary schools to 1980 via examination of historical, philosophical, and psychological sources. Explores ideas that have shaped the field in the past and investigates the influence of these ideas on current thinking.

**Requisites:** Grad st or Spec with tchg exper or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016



**CURRIC 947 – CURRENT ISSUES IN MUSIC EDUCATION**

3 credits.

An exploration of current issues facing music education and an examination of future directions for the field. Students identify and investigate topics affecting them and their schools.

**Requisites:** Grad st or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2011**CURRIC 948 – DIVERSITY ISSUES IN MUSIC TEACHING**

3 credits.

A critical analysis of music teaching discourse and practice; focuses on selected issues pertaining to gender, race, sexuality, and ability/disability.

**Requisites:** Grad st or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2009**CURRIC 949 – SEMINAR IN THE STUDY OF TEACHER EDUCATION: PROFESSIONAL DEVELOPMENT**

3 credits.

Examination of issues in, and approaches to, design, implementation, and evaluation of professional development for inservice teachers.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 950 – SEMINAR IN THE STUDY OF TEACHER EDUCATION**

3 credits.

Examination of issues related to preservice teacher education and teacher education reform.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**CURRIC/ART ED 951 – SEMINAR IN ART EDUCATION**

3 credits.

Examination and analysis of ideas and studies in art education and related areas preparatory to formulating research problems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2013**CURRIC 955 – SEMINAR IN ADVANCED VALUES AND CHARACTER EDUCATION**

3 credits.

Pedagogical, psychological, and research issues associated with current approaches to values and moral education. Primary focus is on these issues as they relate to curriculum and instruction in public schools.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**CURRIC 960 – SEMINAR-SCIENCE EDUCATION**

1-3 credits.

Research methods in improving instruction in elementary and secondary science education.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**CURRIC/ED POL 963 – SEMINAR-EDUCATIONAL PLANNING & CURRIC CHANGE-DEVELOPING COUNTRIES**

3 credits.

Analyses and critiques of educational plans related to the social, political, economic, and educational contexts of the target countries. Supervised practice in planning curricular change and educational reforms for particular countries in the light of realistic requirements and constraints.

**Requisites:** Grad st Curric/Ed Pol 640 or Ed Pol 340 or Ed Admin 875 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**CURRIC 964 – SEMINAR IN WORLD LANGUAGE EDUCATION**

1-3 credits.

Seminar intended to help graduate students in World Language Education, Second Language Acquisition, and any language area develop a review of literature and a research project.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**CURRIC 975 – GENERAL SEMINAR**

2-3 credits.

For the exploration of new frontiers.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**CURRIC 976 – SEMINAR IN READING**

2-3 credits.

Series of advanced seminars on such topics as: diagnostic and remedial teaching; sociology of reading; developmental reading; linguistics in the teaching of reading; or others as designated.

**Requisites:** CURRIC 500 or 503 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**CURRIC 990 – DISSERTATION RESEARCH**

1-12 credits.

Planning and completing a doctoral dissertation. Restricted to students with dissertator status in Curriculum and Instruction.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**CURRIC 991 – POST-SECONDARY TEACHING PRACTICUM**

3 credits.

Opportunity for students to gain an understanding about the design and instruction of teacher education courses.

**Requisites:** Open only to Curriculum and Instruction doctoral students.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**CURRIC 999 – DOCTORAL INDEPENDENT STUDY**

1-3 credits.

Student-designed opportunity to explore a subject in depth. Open to doctoral students.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**DAIRY SCIENCE (DY SCI)****DY SCI 1 – COOPERATIVE EDUCATION/CO-OP IN DIARY SCIENCE**

1 credit.

Full-time off-campus work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career. Students receive credit only for the term in which they are actively enrolled and working. The same work experience may not count towards credit in Dairy Sci 399.

**Requisites:** So st, and consent of supervising instructor and academic advisor.**Repeatable for Credit:** No**DY SCI/AN SCI 101 – INTRODUCTION TO ANIMAL SCIENCES**

4 credits.

Anatomy physiology, nutrition, genetics, reproduction, marketing, meats and management of dairy and beef cattle, swine, sheep, poultry and horses; lectures, laboratories and discussion. Field trips.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**DY SCI 205 – DAIRY CATTLE IMPROVEMENT PROGRAMS**

2 credits.

Dairy cattle evaluation and selection, including: linear type appraisal, dairy cattle judging, mating programs, breed comparisons, cattle marketing, and national genetic improvement programs.

**Requisites:** AN SCI/DY SCI/AN SCI 101**Repeatable for Credit:** No**Last Taught:** Spring 2017**DY SCI 233 – DAIRY HERD MANAGEMENT I**

3 credits.

Overview of practical dairy herd management with components of reproduction, nutrition, milk quality, raising dairy replacements, facilities and records. Laboratories emphasize practical applications, analyses of alternatives and decision making. Includes farm visits and analysis.

**Requisites:** AN SCI/DY SCI/AN SCI 101**Repeatable for Credit:** No**Last Taught:** Fall 2017**DY SCI 234 – DAIRY HERD MANAGEMENT II**

3 credits.

The second of a two course sequence designed as an overview of practical dairy herd management with components of animal welfare and handling, health, calf and heifer rearing, facilities and production economics. Laboratories emphasize practical applications, investigation of alternatives and decision making. Includes farm visits and a hands-on transition cow project for analysis.

**Requisites:** Dairy Science/Animal Science 101 or consent of instructor, successful completion of Dairy Science 233**Repeatable for Credit:** No**Last Taught:** Spring 2017**DY SCI 272 – PRE-CAPSTONE SEMINAR**

1 credit.

In this course, students develop individualized four-year course plans, learn about internships and job opportunities, and discuss leadership development opportunities. Students learn about, and prepare for, active and independent learning from juniors and seniors who have successfully completed independent learning projects including internships, senior seminars and other "capstone" experiences. Intended for prospective or declared Dairy Science majors in their first year or who have not completed Dy Sci 399 - Internship

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Spring 2017

**DY SCI 289 – HONORS INDEPENDENT STUDY**

1-2 credits.

Inter-Ag 288

**Requisites:** Enrolled in the CALS Honors Prgm Sophomore or Junior standing.

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 1998

**DY SCI 299 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Open to Freshmen, Sophomore or Junior standing written consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**DY SCI 305 – LACTATION PHYSIOLOGY**

3 credits.

The course focuses on lactation physiology across mammalian species. Structure and function of mammary glands; hormonal control of mammary development and lactation; cellular mechanisms of milk synthesis; the chemistry of milk synthesis; mastitis and other abnormalities of mammary functions. This course has a laboratory component.

**Requisites:** (BIOLOGY/ZOOLOGY/BIOLOGY 101 or BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151 and BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 152) and (BMOLCHEM 314 or BIOCHEM 501 or concurrent enrollment)

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**DY SCI/AN SCI/NUTR SCI 311 – COMPARATIVE ANIMAL NUTRITION**

3 credits.

Nutrients and their source, assimilation, function and requirement.

**Requisites:** BmolChem 314 or CHEM 341 or CHEM 343 or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**DY SCI/AN SCI 313 – ANIMAL FEEDS AND DIET FORMULATION**

1 credit.

Designed as a companion course for Dairy Science 311 (comparative animal nutrition) with emphasis on quantitative and practical aspects of animal feeds and diet formulation.

**Requisites:** MATH 112, Dy Sci/An Sci 101, or consent of instructor; concurrent registration in Dy Sci/An Sci/Nutr Sci 311 recommended

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**DY SCI/AN SCI 320 – ANIMAL HEALTH AND DISEASE MANAGEMENT**

3 credits.

Principal causes and identification of animal diseases, common diseases of farm animals, zoonoses and public health, disease prevention and management including biosecurity measures and host immune responses.

**Requisites:** ZOOLOGY/BIOLOGY 101/102, BIOLOGY/BOTANY/ZOOLOGY 152, Biocore or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**DY SCI/AN SCI 361 – INTRODUCTION TO ANIMAL AND VETERINARY GENETICS**

2 credits.

The molecular basis for inheritance of monogenic and polygenic traits related to animal disease and production. An introduction to the principles of improving animal health and performance by selection and mating systems in companion animals, horses, livestock, and poultry.

**Requisites:** Genetics 160 or 466 or con reg course in statistics

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**DY SCI/AN SCI 362 – VETERINARY GENETICS**

2 credits.

The genetic basis for predisposition to disease or resistance to disease in livestock and companion animal species. Genetic defects, their discovery, diagnosis and treatment.

**Requisites:** Dy Sci/An Sci 361; or Genetics 160 or 466 Zool/Bot 152

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**DY SCI/AN SCI 363 – PRINCIPLES OF ANIMAL BREEDING**

2 credits.

Application of the principles of quantitative genetics to the improvement of livestock and poultry; breeding value estimation and selection techniques; effects of inbreeding and hybrid vigor; crossbreeding systems.

**Requisites:** Dy Sci/An Sci 361**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**DY SCI/AN SCI 370 – LIVESTOCK PRODUCTION AND HEALTH IN AGRICULTURAL DEVELOPMENT**

3 credits.

Physical, biological and social nature of animal agriculture systems and their improvement in developing countries; analysis of the state of livestock research and development in the developing countries and the world role of U.S. animal agriculture.

**Requisites:** An Sci/Dy Sci 101 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**DY SCI/AGROECOL/AGRONOMY 371 – MANAGED GRAZING FIELD STUDY**

1-2 credits.

This is a course for students who are interested in developing a comprehensive understanding of the principles, practices, and conservation potential of managed grazing systems, and how these farming systems may contribute to the sustainability and diverse tapestry of Wisconsin's working landscape. Students will visit managed grazing systems of successful grazing-based farmers (graziers) across southern/central counties in Wisconsin, and/or research sites at UW's Arlington and/or Lancaster Research Stations and/or the Discovery Farms Program. Students will have the opportunity to discuss at length with farm managers and researchers the practices in place at each farm and research site. Readings will be assigned and discussed. Students will be introduced to CALS/UWEX pasture forage/nutrient management planning and budgeting software. A course fee (expected to be approx. \$75-\$100/student) will be assessed to cover transportation between field sites and farmer-grazier cooperator honoraria.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**DY SCI/AN SCI 373 – ANIMAL PHYSIOLOGY**

3 credits.

Students will develop an understanding of physiological processes that regulate the body, learn the anatomy and function of different physiological systems, describe interactions between organ systems, study regulation of an organ system from the molecular to whole animal level, and identify differences between species in the same systems.

**Requisites:** Biology/ZOOLOGY/BIOLOGY 101 or (Biology/Zoology/BOTANY/BIOLOGY/ZOOLOGY 151 and Biology/Zoology/BOTANY/BIOLOGY/ZOOLOGY 152)**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**DY SCI 375 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Cons inst**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**DY SCI 399 – COORDINATIVE INTERNSHIP/COOPERATIVE EDUCATION**

1-8 credits.

**Requisites:** So, Jr or Sr st cons supervising inst, advisor, and internship coordinator**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**DY SCI 400 – STUDY ABROAD IN DAIRY SCIENCE**

1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. W.-Madison Study Abroad Program

**Requisites:** Current registration in a U.**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**DY SCI/AN SCI 414 – RUMINANT NUTRITION**

2 credits.

Integrates basic nutrition concepts and ration balancing skills by teaching students to balance and troubleshoot rations for various domesticated ruminants. An Sci/Dy Sci 313 is recommended.

**Requisites:** AN SCI/DY SCI/NUTR SCI/AN SCI/DY SCI 311**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**DY SCI/AN SCI 434 – REPRODUCTIVE PHYSIOLOGY**

3 credits.

Principles of reproductive physiology, improvement of fertility, and artificial insemination.

**Requisites:** Jr st, An Sci/Dy Sci 101, or Zool 101 102; Zool 151 152 recommended

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**DY SCI/AN SCI/ENVIR ST/SOIL SCI 468 – MANAGING THE ENVIRONMENTAL IMPACTS OF LIVESTOCK OPERATIONS**

2 credits.

Introduces nonpoint pollution policies and regulations and environmental losses impacting air and water quality. Discuss management practices that influence the cycling and balance of nitrogen and phosphorus across a farm and its components (livestock, crop and soil).

**Requisites:** Junior standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**DY SCI/AN SCI/FOOD SCI/SOIL SCI 472 – ANIMAL AGRICULTURE AND GLOBAL SUSTAINABLE DEVELOPMENT**

1 credit.

This course examines issues related to global agriculture and healthy sustainable development. Using a regional approach and focusing on crops and livestock case studies, students will learn the interdependence between US agriculture and agriculture in emerging economies.

Some topics covered include population and food, immigration, the environment; crop and livestock agriculture; global trade; sustainability; food security, the role of women in agriculture, and the role of dairy products in a healthy diet.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**DY SCI/AN SCI/FOOD SCI/SOIL SCI 473 – INTERNATIONAL FIELD STUDY IN ANIMAL AGRICULTURE AND SUSTAINABLE DEVELOPMENT**

2 credits.

This course is the field study component to DY SCI/AN SCI/FOOD SCI/SOIL SCI 472, which examines issues related to global agriculture and healthy sustainable development. Using a regional approach and focusing on crops and livestock case studies, students will learn the interdependence between US agriculture and agriculture in emerging economies. Some topics covered include population and food, immigration, the environment; crop and livestock agriculture; global trade; sustainability; and the role of women in agriculture and the role of dairy products in a healthy diet.

**Requisites:** DY SCI/AN SCI/FOOD SCI/SOIL SCI 472

**Repeatable for Credit:** No

**DY SCI 534 – REPRODUCTIVE MANAGEMENT OF DAIRY CATTLE**

3 credits.

This course is designed to provide students with the technical knowledge and practical skills to design and execute an effective reproductive management program for dairy cattle. Each week students will participate in lectures and discussions of the key reproductive physiology and practical research results that underlie reproductive management programs. Students will also participate in hands-on laboratories twice per week in which they will learn, practice, and demonstrate practical reproductive management techniques including: Semen handling, artificial insemination, and ultrasound of ovaries and uterus.

**Requisites:** AN SCI/DY SCI/AN SCI 434

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**DY SCI 535 – DAIRY FARM MANAGEMENT PRACTICUM**

3 credits.

Principles of nutrition, breeding, reproduction, and management at the farm level are integrated. Students will develop skills in decision making, information gathering, problem solving, and interpersonal communication through fieldtrips to working commercial dairy operations.

**Requisites:** Dy Sci 233, 434, 361

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**DY SCI 681 – SENIOR HONORS THESIS**

2-4 credits.

**Requisites:** Honors candidacy

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2008

**DY SCI 682 – SENIOR HONORS THESIS**

2-4 credits.

Continuation of 681.

**Requisites:** Honors program candidacy Dy Sci 681

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**DY SCI 690 – PROSEMINAR**

1 credit.

Critical review, evaluation and presentation of current research; 736lication of research to practical problems; career preparation, job application procedures. Required for Dy Sci majors.

**Requisites:** Sr st

**Repeatable for Credit:** No

**Last Taught:** Fall 2015



**DY SCI 699 — SPECIAL PROBLEMS**

1-3 credits.

**Requisites:** Sr st cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**DY SCI 799 — PRACTICUM IN DAIRY SCIENCE TEACHING**

1-3 credits.

Instructional orientation to teaching at the higher education level in the agricultural and life sciences, direct teaching experience under faculty supervision, experience in testing and evaluation of students, and the analysis of teaching performance.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**DY SCI/AN SCI 824 — RUMINANT NUTRITIONAL PHYSIOLOGY I**

4 credits.

Focuses on rumen microbiology, metabolite modeling, as well as protein and VFA nutrition and metabolism. Students should have undergraduate coursework in ruminant nutrition, biochemistry, and microbiology as background.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**DY SCI 875 — SPECIAL TOPICS**

1-4 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**DY SCI 900 — SEMINAR**

1 credit.

Comprehensive reviews of research aimed at broadening understanding of dairy science.

**Requisites:** Dairy Science 690**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**DY SCI/AN SCI 931 — SEMINAR IN ANIMAL NUTRITION**

1 credit.

Discussion of literature that has a bearing on animal nutrition. Students are to survey the literature and present a seminar.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**DY SCI/AN SCI 950 — SEMINAR IN ANIMAL GENOMICS**

1 credit.

Study of current literature in gene mapping, study designs, and application of markers in genetic improvement programs.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2009**DY SCI/AN SCI/GENETICS 951 — SEMINAR IN ANIMAL BREEDING**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**DY SCI 990 — RESEARCH**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## DANCE (DANCE)

**DANCE 1 — WORKSHOP IN DANCE ACTIVITY**

1-2 credits.

**Requisites:** Prereq varies according to topic**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**DANCE 2 — BALLROOM DANCE I**

1 credit.

**Requisites:** Open to Freshmen**Repeatable for Credit:** No**Last Taught:** Fall 2017**DANCE 3 — BALLROOM DANCE II**

1 credit.

Open to Freshmen

**Requisites:** Dance 002 or consent of instructor.**Repeatable for Credit:** No**Last Taught:** Spring 2016



**DANCE 4 – MODERN JAZZ DANCE**

1 credit.

**Requisites:** Open to Freshmen

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**DANCE 5 – MODERN JAZZ DANCE II**

1 credit.

Open to Freshmen

**Requisites:** Dance 004 or consent of instructor.

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**DANCE 11 – CONTEMPORARY DANCE I**

1 credit.

P Consent of instructor.

**Requisites:** Open to Freshmen

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**DANCE 12 – CONTEMPORARY DANCE II**

1 credit.

Open to Freshmen.

**Requisites:** Contemporary Dance I or consent of instructor.

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**DANCE 13 – CONTEMPORARY DANCE III**

1 credit.

Open to Freshmen

**Requisites:** Contemporary Dance II, consent of instructor.

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**DANCE 21 – BALLET I**

1 credit.

**Requisites:** Open to Fr

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**DANCE 22 – BALLET II**

1 credit.

Open to Fr

**Requisites:** Dance 021 or cons inst.

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**DANCE 56 – MOVEMENT IMPROVISATION**

1 credit.

Introductory level exploration of movement improvisation.

**Requisites:** None

**Repeatable for Credit:** Yes, unlimited number of completions

**DANCE 100 – UNDERSTANDING DANCE**

1 credit.

Understanding Dance is an introductory course that builds understanding and appreciation for the field of Dance. This course delves into dance and its' many facets, integrating, theoretical, historical, and embodied learning through viewing, reading, reflecting, discussing and finally, creating.

The course will develop students as informed audience members and encourage relevance to other disciplines.

**Requisites:** None

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**DANCE 111 – CONTEMPORARY DANCE TECHNIQUE AND THEORY I**

1-3 credits.

Level I Core course in technique. Study and practice of the fundamental principles of contemporary dance technique and theory. Exploration of the body as a creative and expressive instrument. Audition at first class meeting determines course eligibility and placement. Open to Freshmen

**Requisites:** Previous dance training.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**DANCE 112 – CONTEMPORARY DANCE TECHNIQUE AND THEORY II**

1-3 credits.

Level I Core course in technique. Study and practice of the fundamental principles of contemporary dance technique and theory. Exploration of the body as a creative and expressive instrument. Audition at first class meeting determines course eligibility and placement. Open to Freshmen

**Requisites:** Previous dance training.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**DANCE 116 – WORKSHOP IN WORLD DANCE**

2 credits.

An experiential lecture/lab exploration in different traditional or folk dance forms from around the world.

**Requisites:** None

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**DANCE 118 – AFRICAN DANCE**

1 credit.

Technique and practice of several basic African dance forms with study of their musical, historical and cultural contexts.

**Requisites:** Open to Freshmen

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**DANCE/ASIAN AM 121 – ASIAN AMERICAN MOVEMENT**

3 credits.

Techniques of exercises and movement forms derived from several Asian cultures as taught in the United States. Studied in the context of the construction and expression of ethnic and cultural identity.

**Requisites:** Open to Freshmen**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**DANCE 125 – BALLET TECHNIQUE I**

1-2 credits.

Introduction to basic skills and terminology; includes barrework, center work, petit allegro, grand allegro; focus on form, kinesthetic principles and aesthetic values. Open to Freshmen

**Requisites:** Beginner level.**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**DANCE 126 – BALLET TECHNIQUE I-B**

1-2 credits.

Level I Core continued expanding terminology, further developing barre work, center work, petit allegro, grand allegro; focus on form, kinesthetic principles and aesthetic values. Open to Freshmen

**Requisites:** DANCE 125.**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**DANCE 131 – SOMATIC THEORY AND PRACTICES**

2 credits.

Integration of body and mind is explored through various somatic practices.

**Requisites:** Open to Freshmen**Repeatable for Credit:** No**Last Taught:** Spring 2017**DANCE 132 – WORKSHOP IN BODY STUDIES AND PRACTICES**

1 credit.

This course is a laboratory in mind-body practice. When offered, the course title will reflect the type of body practices or modalities covered. Each specific practice will focus on increased bodily awareness and function for the performing artist. The class will include movement practices, readings, discussion, writing assignments, videos and performances/lectures.

**Requisites:** None**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**DANCE 135 – PILATES MAT I**

1 credit.

Pilates is a physical conditioning program that creates balance, improves posture, decompresses joints and creates elongated, toned muscles. The exercises focus on core strength, breath, and a flexible spine. Pilates Mat I will teach students the Level I-III Mat exercises. Students explore functional anatomy and imagery-based alignment.

**Requisites:** None**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**DANCE 136 – PILATES EQUIPMENT LAB I**

1 credit.

Pilates Equipment Lab I will focus on learning Level I II (Lab I) exercises on the Pilates equipment, which includes the Reformer, Cadillac, Low Chair, and High Barrel.

**Requisites:** None**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**DANCE 140 – DANCE PRODUCTION**

2 credits.

Introduction to design and production for the performing arts with emphasis on dance. Students learn use of lighting, sound and other scenographic elements in theory and with practical experience.

**Requisites:** Open to Freshmen**Repeatable for Credit:** No**Last Taught:** Fall 2017**DANCE 144 – RHYTHMIC TRAINING FOR DANCERS**

2 credits.

The study of rhythmic theory to educate dancers about musical time and structure. Basic notation, aural comprehension of rhythm, and rhythm activities are emphasized.

**Requisites:** Dance major or consent of instructor; Open to Freshmen**Repeatable for Credit:** No**Last Taught:** Spring 2012**DANCE 152 – DANCE PERFORMANCE WORKSHOP**

1 credit.

Practice and experience in performing for student in the early stages of development.

**Requisites:** DANCE 111, 112 or consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**DANCE 156 – MOVEMENT AS MATERIAL THROUGH IMPROVISATION**

2 credits.

Use of improvisation to develop a personal movement vocabulary and explore compositional form.

**Requisites:** Dance 002, Dance major or minor, certificate or consent or instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017

**DANCE 157 – INTRODUCTION TO MOVEMENT ANALYSIS**

2 credits.

An examination of the qualitative variations in movement processes as they relate to human function and expression.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Spring 2017**DANCE 159 – COLLABORATIVE ARTS WORKSHOP**

2 credits.

Collaborative Arts Workshop focuses on sharing ideas by creating dance and theatre through a collaborative process. The course will expose students to a range of artistic disciplines with the focus of collaboratively developing a concert program projected through the lens of hip hop theatre. Students will engage in various art disciplines to develop interdisciplinary tools through a collaborative process that will strengthen and teach creative problem solving skills.

**Requisites:** By audition**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**DANCE 162 – FIRST YEAR WORKSHOP**

1 credit.

This course, designed for incoming dance majors, introduces students to the world of contemporary dance, and covers topics in contemporary dance performance and professionalism.

**Requisites:** Declared in Dance major**Repeatable for Credit:** No**Last Taught:** Fall 2017**DANCE 165 – WORLD DANCE CULTURES: TRADITIONAL TO CONTEMPORARY**

3 credits.

A survey course providing students with a framework for understanding and appreciating the significance of dance in and as human culture. The course includes reading assignments, lecture, video and studio practice as opportunity to physically experience material discussed.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**DANCE 168 – DANCING GENDER: EMBODIMENT, POLITICS AND FEMINIST THEORY**

3 credits.

Gender theories and feminist theories focus on the body as the main site where gender distinctions are understood. As the body holds a central position in the art of dance and the academic discipline of dance studies, this course explores gender and feminist theories through the lens of dance. Drawing on a wide array of examples and dance genres ranging from across the globe (such as Ballroom, Bollywood, Folk Dance, Ballet and more) This course introduces students to the cultural specificity of gender norms and the ways that dance has the potential to challenge heteronormativity through performance. The course is introductory, no prior experience in dance, gender studies, or women's studies is required.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**DANCE 200 – WRITING THE MOVING BODY**

3 credits.

Examines performance texts from the 20th century to the present, and applies them through written analyses.

**Requisites:** Open to Freshmen**Course Designation:** Gen Ed - Communication Part B**Repeatable for Credit:** No**Last Taught:** Fall 2017**DANCE 205 – DANCE**

1-4 credits.

Introduction to basic elements of modern, jazz and ballet dance forms; emphasis on dance in the physical education curriculum. Open to Fr

**Requisites:** PE majors.**Repeatable for Credit:** No**Last Taught:** Spring 2017**DANCE 211 – CONTEMPORARY DANCE TECHNIQUE AND THEORY III**

1-3 credits.

Continuation of 111 and 112. Exploration of dance dynamics and quality through improvisation and the practice of set dance sequences. Open to Freshmen

**Requisites:** Advanced beginner/Intermediate level.**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**DANCE 212 – CONTEMPORARY DANCE TECHNIQUE AND THEORY IV**

1-3 credits.

Continuation of 211. Further development of skills. Development of dance phrases and movement vocabulary for invention. Open to Freshmen

**Requisites:** Advanced beginner/Intermediate level.**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017

**DANCE 213 – NEW MOVEMENT TECHNIQUES**

1-2 credits.

Exploration of new movement techniques in dance outside of traditional forms and methods. Open to Freshmen

**Requisites:** Intermed level mod technique or consent of instructor.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2014

**DANCE/THEATRE 218 – AFRICAN DANCE PERFORMANCE**

2 credits.

Technique, practice and performance of complex African and African-based dances in relation to polyrhythmic musical and percussive accompaniment. Study of historical and cultural contexts of these forms.

Development of improvisational skills in dialogue with musicians.

**Requisites:** DANCE 118 required.

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**DANCE 225 – BALLET TECHNIQUE II**

1-2 credits.

Emphasis on basic skills; barrework, center work, petit and grand allegro, adagio, and increased use of demi-pointe. Focus on form, kinesthetic principles and aesthetic values. Open to Freshmen

**Requisites:** Advanced beginner/Intermediate level.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**DANCE 226 – BALLET TECHNIQUE II-B**

1-2 credits.

Level II Core continued expanding terminology, further developing barre work, center work, petit allegro, grand allegro; focus on form, kinesthetic principles and aesthetic values. Open to Freshmen

**Requisites:** DANCE 225.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**DANCE 231 – INTRODUCTION TO DANCE/MOVEMENT THERAPY**

2 credits.

Orientation to the scope of dance therapy as a profession. Historical framework, theoretical rationale, and present application of dance/movement therapy.

**Requisites:** So st cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**DANCE 232 – INTRODUCTION TO DYNAMICS OF DANCE THERAPY**

2 credits.

Fieldwork in community programs.

**Requisites:** DANCE 231 cons inst

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**DANCE 235 – PILATES MAT II**

1 credit.

Pilates Mat II is a continuation of Pilates Mat I and will teach students the intermediate to advanced level mat exercises, which continue to focus on core strength, breath and spinal flexibility while challenging upper body strength, range of motion in the hips and spine, spinal extension and inverted balance.

**Requisites:** DANCE 135 or consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**DANCE 236 – PILATES EQUIPMENT II**

1 credit.

Pilates Equipment Lab II will focus on learning Level III (Lab II) exercises on the Pilates equipment, which includes the Reformer, Cadillac, Low Chair, and High Barrel.

**Requisites:** DANCE 136 or consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**DANCE 237 – PILATES STUDIO I**

3 credits.

Pilates Studio I is designed to give students experience in teaching Pilates, which includes private, semi-private, and small group sessions. Classes give student-teachers class structure formats, including an understanding of the instructor to student relationship, pacing of class sessions, and the physical detail with which Pilates is taught.

**Requisites:** DANCE 135; DANCE 136; DANCE 236; or consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**DANCE 240 – DANCE PRODUCTION LABORATORY**

1 credit.

Gives the students hands on experience working with the technical aspects of dance program performances.

**Requisites:** DANCE 140

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**DANCE 241 – MUSIC FUNDAMENTALS FOR DANCERS**

3 credits.

Study of the elements of music and their relationship to movement, a history of contemporary music and modern dance and an introduction to digital audio applications for choreography.

**Requisites:** Students must have taken MUSIC 111 or MUSIC 151 in order to enroll in this class.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**DANCE 255 – MOVEMENT COMPOSITION FOR THE PERFORMING AND VISUAL ARTS**

2 credits.

Basic principles of solo composition explored and applied to movement in visual and performing arts. Not open to Freshmen

**Requisites:** Dance 151.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**DANCE/THEATRE 259 – COLLABORATIVE ARTS PERFORMANCE LAB: DEVISING COLLABORATIVE PERFORMANCE THROUGH HIP HOP ARTS**  
1-2 credits.

Collaborative Arts Performance Lab is a unique course where students work together to create a repertory company which produces performances of short hip hop theater and other collaborative performance art works for public viewing. It is a creative workshop space where experimental works are researched and developed. These workshops are open to all First Wave students, including Freshmen, and will involve the development of collaborative and small group pieces as well as artistic training with a focus on individual and multi-voice work, theater improvisation, dance/movement.

**Requisites:** None

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**DANCE 265 – DANCE HISTORY I: WESTERN THEATRICAL DANCE FROM THE RENAISSANCE THROUGH THE 1920S**  
3 credits.

An overview of the history of Western theatrical dance from the Renaissance to early twentieth century modernism with emphasis on the development of European and American ballet and early modern dance.

**Requisites:** None

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**DANCE 268 – POLITICAL AND CULTURAL PERSPECTIVES IN DANCE STUDIES**  
3 credits.

Examines the role of dance as a cultural form of expression within the political sphere. It draws on a variety of case studies ranging from popular dance TV shows, to European modern dance and from hip-hop to dancing at public protests and asks the question of what constitutes dance and what is its social and political function. Intermediate level, no prior dance experience required.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**DANCE 311 – CONTEMPORARY DANCE TECHNIQUE AND THEORY V**  
1-3 credits.

Level III. Contemporary dance technique and theory on the intermediate level. Emphasis on movement skills employing proper body alignment.

Open to Freshmen

**Requisites:** Intermediate/Advanced level.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**DANCE 312 – CONTEMPORARY DANCE TECHNIQUE AND THEORY VI**  
1-3 credits.

Continuation of 311 Open to Freshmen

**Requisites:** Intermediate/Advanced level.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**DANCE/AFROAMER/MUSIC 318 – CULTURAL CROSS CURRENTS: WEST AFRICAN DANCE/MUSIC IN THE AMERICAS**  
3 credits.

The influence of traditional West African dance/music heritage in historical, artistic, social contexts in the development of new hybrid forms of music/dance created by cross-pollination of cultures of Africans, Europeans and indigenous peoples in the New World.

**Requisites:** Sophomore standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

**DANCE/FOLKLORE/THEATRE 321 – JAVANESE PERFORMANCE**  
2 credits.

Technique and practice of classical Javanese dance in its musical, historical and cultural contexts.

**Requisites:** Junior standing or consent of instructor

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**DANCE 325 – BALLET TECHNIQUE III**  
1-2 credits.

Intermediate: barwork, center work, petit and grand allegro, adagio, demi-pointe, and more complex combinations and skills. Focus on form, kinesthetic principles, and aesthetic values. Open to Freshmen

**Requisites:** Intermediate/Advanced level.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**DANCE 326 – BALLET TECHNIQUE III-B**

1-2 credits.

Intermediate level continued: barrework, center work, petit and grand allegro, adagio, demi-pointe, and more complex combinations and skills. Focus on form, kinesthetic principles, and aesthetic values. Open to Freshmen

**Requisites:** Intermediate/Advanced level.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**DANCE 330 – FUNCTIONAL ANATOMY FOR MOVEMENT PRACTICES**

1 credit.

Functional Anatomy for Movement Practices provides students with an understanding of functional anatomy in kinetic terms. Class will explore efficient musculoskeletal function as it relates to pedestrian movement and vigorous movement. Students will learn how to see and feel the difference between healthy movement and movement pathology.

**Requisites:** DANCE 135; DANCE 136; DANCE 131; or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**DANCE 331 – DYNAMICS OF DANCE THERAPY**

3 credits.

Movement lab integrating theory and techniques of dance therapy. Field work in community service projects.

**Requisites:** Intro crse in dance/movement therapy and/or Jr st and cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**DANCE 336 – PILATES EQUIPMENT LAB III**

2 credits.

Pilates Equipment Lab III covers the Intermediate to Advanced exercises (Level IV and V) on all equipment. The Level IV/V exercises challenge a body's uniform development, range of motion in all actions of the spine, hips and shoulders, and require great control and balance. These exercises are great cross-training for athletes, dancers or Pilates enthusiasts who wish to feel the advanced movement potential of their own bodies.

**Requisites:** DANCE 236 or consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**DANCE 337 – PILATES STUDIO II**

3 credits.

Class will cover the Pilates Level IV-V (Intermediate-Advanced) material on the equipment and continues work from DANCE 237: Pilates Studio I.

**Requisites:** DANCE 235, DANCE 237 and DANCE 336 or consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2016**DANCE/ART 341 – SOUND DESIGN FOR THE PERFORMING AND VISUAL ARTS**

3 credits.

Production of audio soundtracks to complement the work of artists. The relationship of sound and music to dance, video, film, computer art, and other interdisciplinary forms.

**Requisites:** Declared in an Art, Dance, or Communication Arts program**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**DANCE 345 – VIDEO DESIGN FOR THE PERFORMING AND VISUAL ARTS**

3 credits.

Provides technical and aesthetic knowledge of the use of video camera and editing techniques; introduction to digital video; relationship of video to the performing and visual arts.

**Requisites:** Dance major, DANCE 255 or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**DANCE 355 – DANCE COMPOSITION II**

2 credits.

Composition and performance of dances based on pre-classic and modern dance forms to include practical application of theater production, costuming, and stage design.

**Requisites:** DANCE 255**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**DANCE 360 – CURRENT TOPICS IN DANCE**

1-3 credits.

A special topics course that addresses various areas in the field.

**Requisites:** None**Repeatable for Credit:** Yes, unlimited number of completions**DANCE 365 – DANCE HISTORY II: DIRECTIONS AND ISSUES OF CONTEMPORARY DANCE**

3 credits.

Surveys dance history from the 1960's to the present. Through research, video viewing, and discussions, students grasp aesthetic ideas of modern dance; contextualize the major components of contemporary dance; and characterize trends and styles relative to underlying philosophies.

**Requisites:** DANCE 265**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017



**DANCE 371 – CREATIVE DANCE FOR CHILDREN**

3 credits.

Sensitization of the potential teacher to the movement needs of the child; activities for elementary level with emphasis on movement structures which allow child's own responses; readings, observation, and practice teaching.

**Requisites:** Dance 151, 167 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2010**DANCE 372 – TEACHING OF DANCE TO ADULTS**

3 credits.

Theory and practice. Student participation in the teaching of movement as a creative dance experience.

**Requisites:** Dance 161, 167, 255**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2011**DANCE 374 – TEACHING DANCE**

3 credits.

Teaching Dance is designed to provide methods and materials for appropriate dance instruction in the public and private sectors for an array of ages. The course advocates for Dance Education in both public and private settings and emphasizes the value of Dance in enhancing the quality of life for all people.

**Requisites:** DANCE 131 and DANCE 157 and DANCE 255 are required.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**DANCE 375 – PILATES TEACHING METHODS**

1 credit.

Pilates Teaching Methods is designed to give student an understanding of the practice of teaching and learning Pilates. Students develop understanding of body mechanics as well as an appreciation of the variety of movement possibilities and compensatory patterns present in individual bodies. Class will consist of lecture, discussion, practice teaching and mentorship as students begin the process of teaching Pilates.

**Requisites:** DANCE 135 or consent of instructor**Repeatable for Credit:** No**Last Taught:** Spring 2017**DANCE 376 – PILATES TEACHING I**

3 credits.

Pilates Teaching I students complete a minimum of 3 hours of teaching per week (or equivalent) working with individuals and/or group classes. Pilates Teaching I candidates will teach Level I-III work. Students will also attend periodic seminars and mentor meetings.

**Requisites:** Pilates Certificate Candidate; DANCE 135; DANCE 136;

DANCE 236; DANCE 237; and DANCE 375

**Repeatable for Credit:** No**Last Taught:** Fall 2017**DANCE 399 – INDEPENDENT PROJECT**

1-3 credits.

**Requisites:** So st**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**DANCE 411 – CONTEMPORARY DANCE TECHNIQUE AND THEORY VII**

1-3 credits.

Level IV. Advanced level. A wide range of movement experiences emphasizing increasing complexity of design and rhythmic structure. Open to Freshmen

**Requisites:** Advanced level.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**DANCE 412 – CONTEMPORARY DANCE TECHNIQUE AND THEORY VIII**

1-3 credits.

Continuation of 411 Open to Freshmen

**Requisites:** Advanced level.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**DANCE/FOLKLORE/THEATRE 421 – JAVANESE PERFORMANCE REPERTORY**

2 credits.

Introduction to Javanese theatre performance in a Javanese epic tradition. Includes use of Javanese gamelan music as accompaniment for dance drama.

**Requisites:** None**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**DANCE 425 – BALLET TECHNIQUE IV**

1-2 credits.

Intermediate/advanced: pirouettes in large poses, combinations of turning and jumping, extended and varied combinations. Increased focus on the development of artistic expression and musicality. Open to Freshmen

**Requisites:** Intermediate/Advanced level.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2002

**DANCE 431 – DANCE THERAPY PRACTICUM**

3 credits.

One semester supervised experience in psychiatric setting, i.e., special school, hospital, or community mental health center, and one semester of independent study.

**Requisites:** Dance 332, Senior st and consent of instructor

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**DANCE/ART 441 – ADVANCED SOUND DESIGN**

3 credits.

Advanced instruction in the production of sound tracks to complement the work of artists in dance, video, film, computer art and other interdisciplinary forms.

**Requisites:** ART/DANCE/ART 341

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**DANCE 451 – DANCE REPERTORY THEATER**

1-3 credits.

Study of choreography created by member of the faculty and guest artists, leading to public performance. Must take a majors level (100 or higher) modern or ballet technique course concurrently. Open to Freshmen

**Requisites:** Audition at first class meeting.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**DANCE 452 – DANCE REPERTORY THEATER**

1-3 credits.

Study of choreography created by member of the faculty and guest artists, leading to public performance. Must take a majors level (100 or higher) modern or ballet technique course concurrently. Open to Freshmen

**Requisites:** Audition at first class meeting.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**DANCE 455 – DANCE COMPOSITION III**

2 credits.

Principles of organization in group composition. Planning, composing and presenting of group dances.

**Requisites:** DANCE 255

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**DANCE 462 – SENIOR SEMINAR**

3 credits.

This course, designed for dance seniors, enables students to reflect on the entirety of their dance coursework, to develop their own current work in performance and dance scholarship, and to prepare for future engagement with the discipline outside the university.

**Requisites:** Senior st DANCE 355 365

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**DANCE 463 – SENIOR PROJECT**

1-2 credits.

This is a capstone course that focuses on artistic and scholarly senior dance projects such as choreography, performance, pedagogy, research studies, papers, and articles.

**Requisites:** Enrollment limited to students with senior standing that have taken DANCE 355 and DANCE 365.

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**DANCE 469 – INTERDISCIPLINARY STUDIES IN THE ARTS**

1-4 credits.

Guest artists will offer interdisciplinary courses on topics appropriate to their specializations.

**Requisites:** Consent of department

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**DANCE 476 – PILATES TEACHING II**

3 credits.

Pilates Certificate student teachers (ST) will complete a minimum of 3 hours of teaching per week (or equivalent) working with individuals one on one or with group classes. Student Teaching II candidates are expected to cover all Pilates work Level I-V. Students will also attend weekly seminars and mentor meetings.

**Requisites:** Pilates Certificate Candidate, DANCE 235; DANCE 336; DANCE 337; DANCE 330; and DANCE 376

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**DANCE 560 – CURRENT TOPICS IN DANCE: WORKSHOP**

1-3 credits.

**Requisites:** Prereq varies according to topic

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**DANCE 699 – INDEPENDENT PROJECT**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**DANCE 999 – INDEPENDENT PROJECT**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 1994**DESIGN STUDIES (DS)****DS 101 – INTRODUCTION TO TEXTILE DESIGN**

3 credits.

This survey class will be an introduction to the technical and conceptual ways of working in Textile Design. Students will participate in three five week modules: one module introducing print and dye concerns, one module introducing off-loom processes, and one module introducing structural enrichment techniques and concepts. Each module will include a series of introductory exercises leading to a final larger project. The work in each module will be supported by short readings and slide lectures highlighting historical and contemporary work. Course fee: yes.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**DS 120 – DESIGN: FUNDAMENTALS I**

3 credits.

Elements and principles of design. Lecture and studio experience relevant to design of the visual environment.

**Requisites:** None**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**DS 130 – INTRODUCTION TO INTERIOR ARCHITECTURE**

3 credits.

This course is an introduction to interior architecture, as a discipline and as a profession. We will examine the ways in which interior environments impact our lives, and the challenges and responsibilities faced by those who work in this field. Topics include: the history of interior design as a profession; the increased professionalization of interior design; the relation of interior design to other design disciplines (such as architecture and furniture design); the social, economic, and environmental issues that impact design; the role of emerging technologies (including digital media); design research and documentation; the elements and principles of design; the identification and observation of quality work in both commercial and residential settings; contemporary trends in taste and aesthetics; and the application of design research methods to a real-world project. This course will provide students with the foundation necessary to continue as interior architecture majors.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Spring 2017**DS 153 – FABRIC AND APPAREL STRUCTURES I**

3 credits.

Introduction to the physical and aesthetic properties of fiber, yarn and fabric and to the fundamentals of apparel structure in the context of apparel design. Lectures and studio projects explore the interrelationship of fabric, design, and apparel construction.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**DS 154 – PROCESSES FOR APPAREL DESIGN: CLOTHING CONSTRUCTION II**

3 credits.

Analysis of fabric suitability in relation to silhouette, target market and consumer end use. Fabrication and construction of a line of apparel for a specified individual and purpose. Emphasis on fabrics requiring special handling. Advanced construction techniques are introduced.

**Requisites:** DS 153**Repeatable for Credit:** No**Last Taught:** Spring 2017**DS 210 – FASHION ILLUSTRATION**

3 credits.

Introduction to visual communication of apparel design concepts using selected media. Focus is on drawing the fashion figure, using special techniques, with emphasis on the relationship of figure, garment, fabric, texture, and pattern.

**Requisites:** DS 120 and DS 154**Repeatable for Credit:** No**Last Taught:** Fall 2017**DS 215 – PATTERNMAKING FOR 3D FORMS**

3 credits.

The principles and theories of flat pattern, drafting and draping methods for 3D accessories are explored. The principles of patternmaking are applied to headwear, handbags and footwear. Students complete projects that require designing, patterning and constructing hats, bags and footwear.

**Requisites:** DS 153**Repeatable for Credit:** No**Last Taught:** Spring 2017**DS 220 – DESIGN: FUNDAMENTALS II**

3 credits.

Elements and principles of three-dimensional design. Lecture and studio experience relevant to design and analysis of the spatial environment.

**Requisites:** DS 120 and (ME 160 or ART 112)**Repeatable for Credit:** No**Last Taught:** Spring 2017**DS 221 – PERSON AND ENVIRONMENT INTERACTIONS**

3 credits.

Effects of building and outdoor spaces on people over the life course.

**Requisites:** None**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**DS 222 – INTERIOR DESIGN I**

4 credits.

Understanding and applying the process of solving design problems of interiors. Space planning; selection and use of furnishings and materials; preparation of presentations.

**Requisites:** DS 220 and declared in Interior Architecture program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**DS 223 – INTERIOR ARCHITECTURAL DESIGN**

3 credits.

Building components, construction, interpretation of working drawing, and the process of project development.

**Requisites:** DS 222

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**DS 224 – INTERIOR MATERIALS AND FINISHES**

3 credits.

The materials used in interior environments are immense, diverse and constantly changing. This course will focus on the composition of materials, their uses, and how they affect human health and well being.

**Requisites:** Declared in Interior Architecture program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**DS 225 – APPAREL DESIGN I**

3 credits.

Basic principles and elements of design as they apply to apparel. Emphasizing both process and product, students analyze fashion trends and practical problems while developing and executing original designs.

**Requisites:** DS 210 and 253

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**DS/ART 226 – TEXTILE DESIGN: OFF-LOOM CONSTRUCTION**

3 credits.

Studio design problems in two and three dimensional off-loom constructions; off-loom weaving, looping, and knotting; historical reference and contemporary application.

**Requisites:** DS 120 and 153

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**DS 227 – TEXTILE DESIGN: PRINTING AND DYEING I**

3 credits.

Surface design developed in print and resist techniques using historic and contemporary methods.

**Requisites:** DS 120 and 153

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**DS 228 – TEXTILE DESIGN: STRUCTURAL ENRICHMENT I**

3 credits.

Historic and contemporary design techniques creating structural enrichment of textiles.

**Requisites:** DS 120 and 153

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**DS/ART 229 – TEXTILE DESIGN: WEAVING I**

3 credits.

Development of individual design solutions within basic weave structures. Historical and technical influence on contemporary woven design.

**Requisites:** DS 120 and 251

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**DS 241 – VISUAL COMMUNICATION I**

3 credits.

The course focuses on the basic concepts, methods and materials used for communicating ideas during the design process. The course emphasizes creating visually driven experiences, with the goal of giving students the tools to integrate traditional manual approaches with up-to-the-minute digital approaches, all within the context of creative design thinking.

**Requisites:** Declared in Interior Architecture program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**DS 242 – VISUAL COMMUNICATION II**

3 credits.

Advanced topics focusing on the concepts, methods and materials used for communicating ideas during the design process. With an emphasis on creating visually driven experiences, the course integrates traditional manual approaches with up-to-the-minute digital approaches, all within the context of creative design thinking.

**Requisites:** DS 241

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**DS 251 – TEXTILE SCIENCE**

3 credits.

Chemistry and physics of fibers and polymers. Principles of chemical finishes and dyeing. Qualitative fiber analysis. Structure and properties of yarns and fabrics.

**Requisites:** None

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**DS 252 – DESIGN LEADERSHIP SYMPOSIUM**

1 credit.

Provides detailed examination of design careers in the fields of textiles, fashion, and apparel design as well as interior design, industrial design, and architecture. High level industry experts from leading companies in the design industry participate as guest speakers and panel members.

**Requisites:** None

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**DS 253 – PATTERNMAKING FOR APPAREL DESIGN**

3 credits.

The theory and principles of pattern making through flat pattern and draping techniques.

**Requisites:** DS 154

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**DS/ANTHRO/ART HIST/HISTORY/LAND ARC 264 – DIMENSIONS OF MATERIAL CULTURE**

4 credits.

This course introduces students to the interdisciplinary field of material culture studies. It is intended for students interested in any professional endeavor related to material culture, including careers in museums, galleries, historical societies, historic preservation organizations, and academic institutions. During the semester, students have varied opportunities to engage with and contemplate the material world to which people give meaning and which, in turn, influences their lives. Sessions combine in some way the following: presentations from faculty members and professionals who lecture on a phase of material culture related to his/her own scholarship or other professional work; discussion of foundational readings in the field; visits to collections and sites on campus and around Madison; discussion of readings assigned by visiting presenters or the professors; and exams and short papers that engage material culture topics.

**Requisites:** None

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**DS 270 – DESIGN AND FASHION EVENT PRACTICUM**

2 credits.

Addresses the multi-disciplinary production of a student-centered, student-driven design and fashion event. Topics include, creative direction, strategic marketing, stage and performance, visual communication, event organization, audience engagement and event production. Students in this class will gain knowledge, skills and hands-on experience implementing a large-scale art event. Emphasizes teamwork and fosters multi-disciplinary appreciation.

**Requisites:** None

**Repeatable for Credit:** No

**DS 299 – INDEPENDENT STUDY**

1-3 credits.

Directed study projects for freshmen and sophomores as arranged with a faculty member.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**DS 319 – CLOTH TO CLOTHING**

3 credits.

This studio class will explore specific dye and manipulation techniques that directly relate to integrated textile and garment design. Working with color, composition and fabric movement we will discuss simple garment shapes and how they can be used in conjunction with expressive textiles.

**Requisites:** DS 101 and DS 154

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**DS 320 – DESIGN: SKETCHING AND RENDERING**

4 credits.

Introduction to various drawing media and techniques for visually communicating design concepts.

**Requisites:** M E 160 and ART 112

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**DS 322 – INTERIOR DESIGN II**

4 credits.

Design of residential interiors including space planning, lighting design, selections of materials and furniture, professional communication of design solutions. Emphasis on the aesthetic and functional needs of the family and residents with special needs.

**Requisites:** DS 222

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**DS 323 – COMPUTER AIDED DESIGN: ARCHITECTURE AND INTERIORS**

3 credits.

The class emphasized the use of CAD (Computer Aided Design) as a design/problem solving method, and as a means of creating both construction documents and presentation drawings. Three dimensional CAD drawings are created using both parallel and perspective projection techniques.

**Requisites:** M E 160

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**DS 327 – TEXTILE DESIGN: MANUAL/COMPUTER GENERATED IMAGERY AND PATTERN**

3 credits.

Studio problems in surface pattern design on textiles (motif, layout, repeats, colorways, coordinates), using various manual and computer methods. Development of imagery, design concepts, and presentation.

**Requisites:** DS 120 and DS 227

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**DS 341 – DESIGN THINKING FOR TRANSFORMATION**

3 credits.

Students will learn design thinking techniques to enhance creative analysis and problem solving. Students will directly apply what they have learned to a variety of human centered design challenges. Students will innovate, prototype, and test designs that address real-world problems with real-world constraints and the limitations of technology. Projects range from ways to improve everyday situations to community issues.

**Requisites:** None**Repeatable for Credit:** No**DS 355 – HISTORY OF FASHION, 1400-PRESENT**

3 credits.

Changing form and meaning of costume in the West from Renaissance to present. Dress considered in relation to social/cultural milieu and as an art form. Includes treatment of the body; ethnic/class variations; couture; "antifashion".

**Requisites:** Junior standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2012**DS/BSE/LAND ARC 356 – SUSTAINABLE RESIDENTIAL CONSTRUCTION**

3 credits.

Properties and use of building materials, framing systems, HVAC systems, code requirements, conservation of natural resources in building construction and operation.

**Requisites:** MATH 112, 114, or 171**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**DS 360 – GLOBAL PERSPECTIVES ON DESIGN AND CULTURE**

3 credits.

Explores how design reflects/encodes culture through cross-cultural examination of living environments and ways groups accommodate universal human needs such as seating and baby-carrying. Considers inter-cultural design interfaces and uses a design perspective to look at globalization issues.

**Requisites:** DS 120**Repeatable for Credit:** No**Last Taught:** Fall 2010**DS 361 – DESIGN-RELATED INTERNATIONAL EXPERIENCE**

1-6 credits.

In-depth study of art/design concepts and/or practice in a specific culture. Each class looks at cultural issues through a particularized design-related lens. Students live and work in the country they are studying.

**Requisites:** DS 120 or ART 104**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**DS/ART HIST 363 – AMERICAN DECORATIVE ARTS AND INTERIORS: 1620-1840**

3-4 credits.

Interdisciplinary study of the design, production, and consumption of household objects and their American domestic settings, 17th through the early 19th centuries.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**DS 420 – TWENTIETH CENTURY DESIGN**

3 credits.

In-depth study of art/design concepts and/or practice in a specific culture. Each class looks at cultural issues through a particularized design-related lens. Students live and work in the country they are studying.

**Requisites:** DS 120 or ART 104**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2012**DS 421 – HISTORY OF ARCHITECTURE AND INTERIORS I: ANTIQUITY THROUGH 18TH CENTURY**

3 credits.

This course surveys the history of architecture, interiors, furnishings and decorative arts from antiquity to the mid-19th century. Lectures and readings introduce major design cultures and movements, emphasizing the role of social, economic, political, technological, and aesthetic factors in the shaping design.

**Requisites:** DS 120 or (ART HIST 201 and ART HIST 202)**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**DS 422 – HISTORY OF ARCHITECTURE & INTERIORS II: 19TH AND 20TH CENTURIES**

3 credits.

This course surveys the history of architecture, interiors, furnishings and decorative arts from the mid-19th to the mid-20th century. Lectures and readings introduce major design cultures and movements, emphasizing the role of social, economic, political, technological, and aesthetic factors in the shaping design.

**Requisites:** DS 421 or (ART HIST 201 and 202)**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017



**DS 425 — APPAREL DESIGN II**

3 credits.

Development and execution of designs for special audiences. Examines sources of inspiration, selection of fabrics, decorative detailing and accessories. Emphasizes the importance of ability to visualize and express one's ideas verbally and through the use of technical flats and sketches.

**Requisites:** DS 225

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**DS 427 — TEXTILE DESIGN: PRINTING AND DYEING II**

3 credits.

Focuses on silkscreen printing. Discharge, burnout, and chemical resist processes, specific to screen printing, will be introduced. Students will be asked to develop conceptual ideas and explore alternative ways of producing images.

**Requisites:** DS 227 and 327

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**DS 428 — TEXTILE DESIGN: STRUCTURAL ENRICHMENT II**

3 credits.

Structural enrichment of textiles including historic and contemporary design techniques. Historic resource material and adaptation of techniques for original expression.

**Requisites:** DS 228

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**DS 429 — TEXTILE DESIGN: WEAVING II**

3 credits.

Analysis of complex or compound hand weave techniques. Individual development of solutions to problems of structural textile design.

**Requisites:** ART/DS/ART 229

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**DS 430 — HISTORY OF TEXTILES**

3 credits.

Designs and meanings and interrelationships of textiles in selected cultures and time periods.

**Requisites:** None

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**DS 451 — COLOR THEORY AND TECHNOLOGY**

3 credits.

Color technology and its impact on a variety of scientific and design oriented fields are discussed. Emphasis is placed on the spectrophotometric measurement of color and the use of computer technology to create, analyze and match color.

**Requisites:** Satisfied Quantitative Reasoning (QR) A requirement

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**DS/ART HIST/HISTORY 464 — DIMENSIONS OF MATERIAL CULTURE**

3 credits.

Approaches to the interdisciplinary study of the material world in order to analyze broader social and cultural issues. Guest speakers explore private and public objects and spaces from historic, ethnographic, and aesthetic perspectives.

**Requisites:** One course 300-level or higher in ART HIST or DS

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**DS 469 — INTERDISCIPLINARY STUDIES IN THE ARTS**

1-4 credits.

Guest artists will offer interdisciplinary courses on topics appropriate to their specializations.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**DS 501 — SPECIAL TOPICS**

1-3 credits.

Specialized subject matter of current interest to undergraduate students.

**Requisites:** Prerequisites vary by topic

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**DS/FOLKLORE 512 — MATERIAL CULTURE ANALYSIS: THE ARTS AND THE CONSUMER SOCIETY**

3 credits.

The meanings of objects—both art objects and consumer goods. Interactions between people and objects; "decoding" objects as primary sources of information about the people/cultures that make and use them.

**Requisites:** Junior standing

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**DS 527 – GLOBAL ARTISANS**

3 credits.

In the field of design, there has been an increased emphasis on ethical practices in production and consumption. Utilizing "design thinking", students in this project-based survey course will be exposed to important issues surrounding small-scale artisan production and develop valuable hands-on skills working with artisan partners through design, quality control, branding and story-telling. Topics may include: fair trade development, product design, cultural implications, as well as pricing, marketing, and sales.

**Requisites:** Junior standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**DS 528 – EXPERIMENTAL TEXTILE DESIGN**

2-3 credits.

Experimental design and decorative principles; elements and techniques for the animation of textile surfaces.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**DS 529 – BUILDING A SUSTAINABLE CREATIVE PRACTICE**

3 credits.

Artists and designers' material choices influence the content, social meaning, and physical structure of their work, as well as leaving an environmental foot print and affecting social exchange. Beginning with the consideration of reuse and recycling, students in this studio class will critically engage ideas of sustainability in art making and design practice with an emphasis on fiber related topics including textile and apparel design, soft sculpture, papermaking and book arts, as well as exhibition, installation, and/or the distribution of finished works.

**Requisites:** Junior standing**Repeatable for Credit:** No**DS 545 – PLACEMAKING**

3 credits.

Studies the affective qualities of man-made environments. Seeks understanding of specific qualities found in environments and the conditions that produce them. Students are encouraged to develop and implement a personal design philosophy.

**Requisites:** Junior standing and declared in Interior Architecture**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2011**DS 561 – TEXTILES: SPECIFICATIONS AND END USE ANALYSIS**

3 credits.

Physical textile testings are studied. Emphasis is placed on the evaluation of textiles intended for use as apparel and for interiors. Writing specifications, and minimum performance standards are also discussed.

**Requisites:** DS 224 or DS 251**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**DS 570 – DESIGN AND FASHION EVENT MANAGEMENT**

3 credits.

Production of a student-driven, student-centered design and fashion event presents the framework for advanced experience and study for upper-level students. This course provides the opportunity to study and to actively engage in high-level interdisciplinary exploration and collaboration. Transferring discipline-specific skills to a new context, students will learn methods for testing, review, and revision to develop problem-solving skills and communication. The course encourages teamwork as well as crossdisciplinary understanding and appreciation.

**Requisites:** DS 270**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**DS/COMP SCI 579 – VIRTUAL REALITY**

3 credits.

Introduces students to the field of virtual reality and focuses on creating immersive, interactive virtual experiences. Survey topics include historical perspectives on virtual reality technology, computer graphics and 3D modeling, human perception and psychology, human computer interaction and user interface design. This course is designed for students with backgrounds in Computer Science, Engineering, Art, Architecture and Design. Students will work in interdisciplinary teams on projects, culminating in a final event that will be showcased to the public. While not an official website, the class will be technologically motivated; therefore students should be comfortable learning new software. The class will utilize publicly available game design software which provides tools and services for the creation of interactive content. While not necessary, students may find it helpful to have taken classes in programming and computer graphics (such as COMP SCI 559: Computer Graphics) or in 3D modeling (such as ART 429: 3D Digital Studio I or DS 242: Visual Communication II).

**Requisites:** Sophomore standing**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**DS 601 – INTERNSHIP**

1-8 credits.

Enables students with supervised internships to earn academic credit while engaged in a professional experience in design studies related fields. Course intended for juniors and seniors in Design Studies.

**Requisites:** Consent of instructor**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**DS 610 — APPAREL DESIGN: PROFESSIONAL PRACTICES**

3 credits.

Professional orientation for apparel designers.

**Requisites:** Senior standing**Repeatable for Credit:** No**Last Taught:** Spring 2013**DS 622 — INTERIOR DESIGN III**

4 credits.

Design of commercial interiors with emphasis on design process, programming, space planning, selection of interior materials, furniture, and lighting. Field trip required.

**Requisites:** DS 322**Repeatable for Credit:** No**Last Taught:** Fall 2017**DS 623 — INTERIOR DESIGN IV**

4 credits.

Design of commercial interiors with emphasis on acoustics, codes, costs, specifications, details, and visual presentation. Field trip required.

**Requisites:** DS 622**Repeatable for Credit:** No**Last Taught:** Spring 2017**DS 624 — PORTFOLIO PREPARATION**

3 credits.

Portfolio organization and presentation. Development of resume, preparation for interviews, and coverage of professional practice. Senior level portfolio review prerequisite for completion of course.

**Requisites:** DS 622**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**DS 630 — HOUSING ENVIRONMENTS FOR OLDER PEOPLE**

3 credits.

Investigation of the environmental needs and design considerations for supportive housing for older people. Housing options are studied in terms of 1) how they support older people of various ages, capabilities, and finances; and 2) the implications of selecting a certain housing option.

**Requisites:** Junior standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2008**DS 633 — ADVANCED INTERIOR AND ARCHITECTURAL DESIGN VISUALIZATION**

3 credits.

Computer aided design (CAD) and computer visualization explored as interior and architectural design tools. Simulation and analysis of 3D environments.

**Requisites:** DS 120 and M E 160**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2010**DS/LAND ARC 639 — CULTURE AND BUILT ENVIRONMENT**

3 credits.

The course explores cultural values embedded in buildings through understanding physical configurations, social organizations, practiced/symbolic/representational aspects of buildings. The course covers a wide range of cultures and the built environments they produce including examples from the Americas, the Middle East, as well as those of the many ethnic minorities in the U.S.

**Requisites:** Junior standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**DS/FOLKLORE 640 — TOPICS IN ETHNOGRAPHIC TEXTILES**

3 credits.

Ethnographic survey of non-western textiles; technological, aesthetic, functional, and historical aspects. Geographical area varies: African, East Asian, Southeast Asian, Ibero-American or Native American textiles.

**Requisites:** DS 430**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2011**DS 642 — TASTE**

3 credits.

Exploration of the idea of taste - both "good" and "bad", in "popular" and "high" culture. Cross-cultural readings from theoretical and historical perspectives, relating to architecture, landscape, public space, art, and clothing.

**Requisites:** Graduate or professional standing**Repeatable for Credit:** No**Last Taught:** Fall 2015**DS/FOLKLORE 655 — COMPARATIVE WORLD DRESS**

3 credits.

Variations in form, function and meaning of dress in diverse social and cultural contexts; dress as an art form.

**Requisites:** Junior standing**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2010**DS 680 — SENIOR HONORS THESIS**

2-4 credits.

Individual study for seniors completing theses for Human Ecology honors degrees as arranged with a faculty member.

**Requisites:** Consent of instructor**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016

**DS 690 – SENIOR THESIS**

2-4 credits.

Individual study for seniors completing theses as arranged with a faculty member.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**DS 699 – INDEPENDENT STUDY**

1-6 credits.

Directed study projects for juniors and seniors as arranged with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**DS 720 – LITERATURE OF DESIGN THEORY**

3 credits.

Theories from basic disciplines pertinent to design fields such as applied and decorative art. A range of conceptual approaches for studying the material artifact.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**DS/ANTHRO/ART HIST/HISTORY/LAND ARC 764 – DIMENSIONS OF MATERIAL CULTURE**

4 credits.

This course introduces students to the interdisciplinary field of material culture studies. It is intended for students interested in any professional endeavor related to material culture, including careers in museums, galleries, historical societies, historic preservation organizations, and academic institutions. During the semester, students have varied opportunities to engage with and contemplate the material world to which people give meaning and which, in turn, influences their lives. Sessions combine in some way the following: presentations from faculty members and professionals who lecture on a phase of material culture related to his/her own scholarship or other professional work; discussion of foundational readings in the field; visits to collections and sites on campus and around Madison; discussion of readings assigned by visiting presenters or the professors; and exams and short papers that engage material culture topics.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**DS 920 – SEMINAR IN DESIGN STUDIES**

1-3 credits.

This course is intended as forum for Design Studies graduate students to discuss issues in contemporary art and design.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**DS/F&W ECOL/URB R PL 955 – PRACTICAL RESEARCH DESIGN AND METHODS OF EMPIRICAL INQUIRY**

3 credits.

Provides a practical introduction to basic concepts of research question formulation, research designs and alternative methods of inquiry, implications for internal validity of the research and generalizability of the findings, operational definitions and measurement validity, reliability, utility and precision.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**DS 990 – RESEARCH AND THESIS**

1-12 credits.

Independent research and writing for graduate students under the supervision of a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**DS 999 – INDEPENDENT STUDY**

1-3 credits.

Directed study projects for graduate students as arranged with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## EAST ASIAN AREA STUDIES (E A STDS)

### E A STDS/HISTORY 103 – INTRODUCTION TO EAST ASIAN HISTORY: CHINA

3-4 credits.

Survey of major developments in Chinese history from 1500 B.C. to the founding of the Communist state in 1949. Emphasis on patterns and themes; equal time devoted to the classical and traditional period and the modern era.

**Requisites:** Open to All Undergrads

**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### E A STDS/HISTORY 104 – INTRODUCTION TO EAST ASIAN HISTORY: JAPAN

3-4 credits.

Survey of major cultural, social, political and economic developments in Japanese history from ancient to recent times.

**Requisites:** Open to All Undergrads

**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### E A STDS/HISTORY/POLI SCI 255 – INTRODUCTION TO EAST ASIAN CIVILIZATIONS

3-4 credits.

Multidisciplinary and historical perspectives on the East Asian civilizations of China, Japan, Korea, Tibet and Mongolia from prehistory to the present, including developments in philosophy, economy, governance, social structure, kinship, geography, etc.

**Requisites:** None

**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

### E A STDS/ASIAN AM/HISTORY 276 – CHINESE MIGRATIONS SINCE 1500

3-4 credits.

Introduces the comparative history of Chinese migrations to the U.S. and world. Examines patterns of movement; imagined communities through cultural identity, citizenship, queerness, heritage tourism, studying abroad, and transnational adoption; as well as sites of cultural production such as food, literature, architecture, and cinema.

**Requisites:** Sophomore standing or consent of instructor

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### E A STDS 299 – DIRECTED STUDY

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2002

### E A STDS/E ASIAN 300 – HUMANITIES TOPICS IN EAST ASIAN STUDIES

1-3 credits.

Interdisciplinary approaches to specific humanities topics in East Asian studies. Topics may include comparative analysis of a theme across the countries in the East Asian region or focus on a theme within a single country.

**Requisites:** Open to Fr with cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

### E A STDS 301 – SOCIAL STUDIES TOPICS IN EAST ASIAN STUDIES

1-3 credits.

Interdisciplinary approaches to specific social sciences topics in East Asian studies. Topics may include comparative analysis of a theme across the countries in the East Asian region or focus on a theme within a single country.

**Requisites:** Open to Fr with cons inst

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**E A STDS/HISTORY 337 – SOCIAL AND INTELLECTUAL HISTORY OF CHINA, 589 AD-1919**

3-4 credits.

The culture of the literati in the Tang; major trends of Neo-Confucianism during the Sung and Ming; the Confucian response to the West in the nineteenth century; the emergence of the modern Chinese intelligentsia and iconoclasm in the early May Fourth period.

**Requisites:** Sophomore standing or Hist 103**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E A STDS/HISTORY 341 – HISTORY OF MODERN CHINA, 1800-1949**

3-4 credits.

The disintegration of traditional Chinese society under the impact of Western imperialism, the rise of modern Chinese nationalism, and the emergence of modern revolutionary movements and ideologies.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E A STDS/HISTORY 342 – HISTORY OF THE PEOPLES REPUBLIC OF CHINA, 1949 TO THE PRESENT**

3-4 credits.

The social, economic and political transformation of China under Communism; the role of ideology in contemporary Chinese historical development; the nature of that historical development in the comparative perspective of other post-revolutionary histories.

**Requisites:** So st**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**E A STDS/HISTORY 363 – CHINA AND WORLD WAR II IN ASIA**

3-4 credits.

This course is intended to help students understand World War II from the perspective of Asia. The focus is not only on the American and Japanese roles in the war but also on lesser, often overlooked participants such as China, Korea, and Southeast Asia. The course will focus not only on the diplomatic, political, and military situation of wartime Asia, but also on perceptions and experiences of the war from those most heavily affected by it: those experiencing it on the ground. Understanding this war is critical for helping us understand contemporary Asia. The foundations of the Cold War and the post-Cold War world that we live in today were forged on battlefields in mainland China, Burma, small islands in the Pacific, and in the skies over the archipelago of Japan. In order to provide the background and understand the legacies, this course covers an extended time frame, beginning in the 19th century with the arrival of the West in Asia and continues into the 1950s.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E A STDS/HISTORY 454 – SAMURAI: HISTORY AND IMAGE**

3-4 credits.

Japanese warriors, their ideals, and their images from the tenth century to the present.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**E A STDS/HISTORY 456 – PEARL HARBOR & HIROSHIMA: JAPAN, THE US & THE CRISIS IN ASIA**

3-4 credits.

Events leading to the Pearl Harbor attack, the conduct of World War II in the Pacific, the nature of the wartime Japanese state and effects of the war on Japanese society, the dropping of the atomic bombs, and Japan's decision to surrender. The war as an epoch in Japanese history.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**E A STDS 681 – SENIOR HONORS THESIS**

3 credits.

Senior honors thesis in East Asian area studies.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2013



**E A STDS 682 – SENIOR HONORS THESIS**

3 credits.

Senior honors thesis in East Asian area studies.

**Requisites:** E A Stds 681, consent of faculty adviser**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2014**E A STDS 691 – SENIOR THESIS**

3 credits.

Individual research guided by a faculty mentor. A requirement for honors credit. E A Stds major

**Requisites:** Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2012**E A STDS 692 – SENIOR THESIS**

3 credits.

Individual research guided by a faculty mentor. A requirement for honors credit. E A Stds major

**Requisites:** Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2013**E A STDS 698 – DIRECTED STUDY**

1-3 credits.

Graded on a Cr/N basis.

**Requisites:** Jr or Sr st cons inst.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**E A STDS 699 – DIRECTED STUDY**

2-3 credits.

Graded on a lettered basis; requires cons inst

**Requisites:** Jr or St st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**EAST ASIAN LANGUAGES AND LITERATURE (E ASIAN)****E ASIAN 101 – FIRST SEMESTER CHINESE**

6 credits.

Introduces the basic grammar along with 900 Chinese characters of standard spoken Chinese. Eight hours weekly, three of which are lectures and five in small groups for oral practice. Within the year, students will have acquired elementary reading skill and the ability to communicate with native Chinese.

**Requisites:** Open to Fr**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 102 – SECOND SEMESTER CHINESE**

6 credits.

Continuation of 101.

**Requisites:** E Asian 101**Course Designation:** Frgn Lang - 3rd semester language course

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E ASIAN 103 – FIRST SEMESTER JAPANESE**

6 credits.

Phonological system and the basic grammatical patterns of modern colloquial Japanese, along with Hiragana, Katakana, and approximately 300 Chinese characters. Eight hours weekly.

**Requisites:** Open to Freshmen**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 104 – SECOND SEMESTER JAPANESE**

6 credits.

Continuation of 103.

**Requisites:** E Asian 103 or satisfactory placement test scores**Course Designation:** Frgn Lang - 3rd semester language course

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**E ASIAN 105 – ELEMENTARY KOREAN**

4 credits.

Essentials of modern spoken and written Korean.

**Requisites:** Open to Fr**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 106 – ELEMENTARY KOREAN**

4 credits.

Continuation of E Asian 105.

**Requisites:** E Asian 105**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E ASIAN 111 – ELEMENTARY CONVERSATIONAL CHINESE FOR PROFESSIONALS I**

3 credits.

This online course introduces students to basic conversational Chinese, with a focus on understanding and appreciating cultural beliefs, attitudes and practices, especially in a business or professional context.

**Requisites:** Open to Fr**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2009**E ASIAN/ENVIR ST/LCA 115 – ENVIRONMENTAL HUMANITIES: ASIAN/PACIFIC PERSPECTIVES**

3-4 credits.

Course offers a case-based approach to environmental studies from a humanistic perspective, taking into account diverse and connected transnational systems of Asia; materials draw on themes like forests, water, disaster, war, and conservation and wildlife. Course introduces disciplines in the Environmental Humanities (literature, religion, music, etc.) through studies in tradition, theory and practice across South Asia, Southeast Asia, East Asia and ocean and Pasifik regions including Aotearoa, New Zealand. Throughout the course we ask, how are environmental worldviews cast as the basis for action and understanding in the present?

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**E ASIAN 121 – ELEMENTARY CHINESE**

3 credits.

Introduction to the fundamental phonetic system and grammar of standard spoken Chinese along with 400 characters. Meets four hours weekly with the emphasis on speaking. Credit will not be granted for both 121 101

**Requisites:** Open to Freshmen.**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E ASIAN 122 – ELEMENTARY CHINESE**

3 credits.

Continuation of 121. Credit will not be granted for both 122 101

**Requisites:** E Asian 121.**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 123 – ELEMENTARY JAPANESE**

3 credits.

Elementary level skills in listening, speaking, reading and writing. Credit will not be granted for both 123 103

**Requisites:** Open to Freshmen.**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**E ASIAN 124 – ELEMENTARY JAPANESE**

3 credits.

Continuation of East Asian 123. Credit will not be granted for both 124 103

**Requisites:** E Asian 123 or satisfactory placement test scores.**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 201 – THIRD SEMESTER CHINESE**

6 credits.

Continuation of first year. Contact hours same as first year.

**Requisites:** E Asian 102**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**E ASIAN 202 – FOURTH SEMESTER CHINESE**

6 credits.

Continuation of 201.

**Requisites:** E Asian 201**Course Designation:** Frgn Lang - 4th semester language course  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E ASIAN 203 – THIRD SEMESTER JAPANESE**

6 credits.

Further practice in speaking, reading, and writing. Approximately 500 more characters introduced. Conducted in Japanese. Eight hours weekly.

**Requisites:** E ASIAN 104**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 204 – FOURTH SEMESTER JAPANESE**

6 credits.

Continuation of 203.

**Requisites:** E Asian 203 or satisfactory placement test scores**Course Designation:** Frgn Lang - 4th semester language course  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**E ASIAN 213 – FIRST SEMESTER HERITAGE CHINESE**

6 credits.

This course emphasizes reading and writing skills. Students will acquire a wide range of vocabulary, grammatical points and sentence patterns from a variety of readings about Chinese families and Chinese culture.

They will also learn how to write compositions about the covered topics. Background questionnaires need to be completed as well

**Requisites:** Students should take placement tests including oral interviews and proficiency tests.**Course Designation:** Frgn Lang - 1st semester language course  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**E ASIAN 214 – SECOND SEMESTER HERITAGE CHINESE**

6 credits.

This course emphasizes reading and writing skills. Students will acquire a wide range of vocabulary, grammatical points and sentence patterns from a variety of readings about Chinese culture. They will also learn how to write compositions about the covered topics.

**Requisites:** E ASIAN 113**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**E ASIAN/LCA/RELIG ST 235 – GENRES OF ASIAN RELIGIOUS WRITING**

3 credits.

Writing intensive course based on the conventions in which Asian writers have expressed religious ideas. Readings introduce major Asian religious traditions and expressive genres. Open to Fr

**Requisites:** Successful completion of or exemption from Com A requirement.**Course Designation:** Gen Ed - Communication Part B  
Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 253 – INTRODUCTION TO JAPANESE CULTURE AND CIVILIZATION**

3 credits.

An introduction to the culture, life-styles and thought of the Japanese people, with frequent reference to their history, literature and art.

**Requisites:** Open to Fr all stdts**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E ASIAN/HISTORY/RELIG ST 267 – ASIAN RELIGIONS IN GLOBAL PERSPECTIVE**

3-4 credits.

Comparative and thematic introduction to diverse Asian religious traditions, ideas and communities, and their relevance to human societies of the past and present..

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN/KINES 277 – KENDO: INTEGRATION OF MARTIAL ARTS AND LIBERAL ARTS**

2 credits.

Kendo practice (martial art) supplemented by lecture describing its historical roots and philosophical background.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 299 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017

**E ASIAN/E A STDS 300 – HUMANITIES TOPICS IN EAST ASIAN STUDIES**  
1-3 credits.

Interdisciplinary approaches to specific humanities topics in East Asian studies. Topics may include comparative analysis of a theme across the countries in the East Asian region or focus on a theme within a single country.

**Requisites:** Open to Fr with cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**E ASIAN 301 – FIFTH SEMESTER CHINESE**  
4 credits.

Selections principally from modern Chinese literature and material in Chinese social studies, to expose students to reading a variety of styles. Classes conducted in Chinese. Three hours lecture, two hours discussion.

**Requisites:** E Asian 202

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E ASIAN 302 – SIXTH SEMESTER CHINESE**  
4 credits.

Continuation of 301.

**Requisites:** E Asian 301

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E ASIAN 303 – FIFTH SEMESTER JAPANESE**  
4 credits.

Further practice in reading and writing. Extensive as well as intensive readings in contemporary texts. At least 1,000 more characters introduced. Videotape material also used. Conducted in Japanese. Five hours weekly.

**Requisites:** E Asian 204 or 328 or satisfactory placement test scores

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E ASIAN 304 – SIXTH SEMESTER JAPANESE**  
4 credits.

Continuation of 303.

**Requisites:** E Asian 303 or satisfactory placement test scores

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E ASIAN/HISTORY/LCA/RELIG ST 308 – INTRODUCTION TO BUDDHISM**  
3-4 credits.

The basic thought, practices and history of Buddhism, including selflessness and relativity, practices of meditation, merit-making and compassion from both local and translocal perspectives. Includes a discussion of Buddhism as a contemporary, North American religion.

**Requisites:** Open to Freshmen

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E ASIAN 311 – FIRST SEMESTER CHINESE**  
5-6 credits.

Introduces the basic grammar along with 900 Chinese characters of standard spoken Chinese.

**Requisites:** Grad st

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E ASIAN 312 – SECOND SEMESTER CHINESE**  
5-6 credits.

Continuation of 311.

**Requisites:** E Asian 311 or satisfactory placement test scores, Grad st

**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E ASIAN 317 – THIRD SEMESTER CHINESE**  
5-6 credits.

Continuation of first year.

**Requisites:** Graduate standing and E ASIAN 312

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E ASIAN 318 – FOURTH SEMESTER CHINESE**  
5-6 credits.

Continuation of 317.

**Requisites:** E Asian 317 or satisfactory placement test scores, Grad st

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E ASIAN 319 – FIRST SEMESTER JAPANESE**

5-6 credits.

The phonological system and the basic grammatical patterns of modern colloquial Japanese, along with Hiragana, Katakana, and approximately 300 Kanji. Eight hours weekly.

**Requisites:** Graduate standing**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 320 – SECOND SEMESTER JAPANESE**

5-6 credits.

Continuation of 319.

**Requisites:** E Asian 319 or satisfactory placement test scores, Grad st**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E ASIAN 321 – FIRST YEAR CLASSICAL CHINESE**

4 credits.

Introduction to literary Chinese; emphasis on basic grammar to develop reading ability. Selections from: Philosophical and historical texts, essays, fictions, T'ang poetry, Sung lyrics, Yuan songs, and Ming drama.

**Requisites:** E Asian 202 or 318 or equiv**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 322 – FIRST YEAR CLASSICAL CHINESE**

4 credits.

Continuation of 321.

**Requisites:** E Asian 321**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E ASIAN 323 – FIRST YEAR CLASSICAL JAPANESE**

3 credits.

Introduction to the grammar of classical Japanese to develop reading ability. Specially annotated texts of such works as Hojoki and Oku No Hosomichi are the principal reading material.

**Requisites:** Req E Asian 204 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 325 – ELEMENTARY KOREAN**

3 credits.

Essentials of modern spoken and written Korean.

**Requisites:** Grad st**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 326 – ELEMENTARY KOREAN**

3 credits.

Continuation of E Asian 325.

**Requisites:** E A 325 Grad St**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E ASIAN 327 – THIRD SEMESTER JAPANESE**

5-6 credits.

Further practice in speaking, reading, and writing. Approximately 500 more kanji introduced. Conducted in Japanese. Eight hours weekly.

**Requisites:** Graduate standing and E ASIAN 320**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 328 – FOURTH SEMESTER JAPANESE**

5-6 credits.

Continuation of 327.

**Requisites:** E Asian 327 or satisfactory placement test scores, Grad standing**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**E ASIAN/E P D 330 – BASIC TECHNICAL JAPANESE I**

3 credits.

Introduces the three types of Japanese writing and most grammar necessary for reading technical writing in the sciences.

**Requisites:** Sr or Grad st**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016

**E ASIAN/E P D 332 – BASIC TECHNICAL JAPANESE II**

3 credits.

Completes the grammar necessary for reading technical writing in the sciences. Concludes with individual projects in specialized fields.

**Requisites:** EPD/E Asian 330**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E ASIAN 333 – CHINESE CONVERSATION**

3 credits.

Introduces students to oral communication skills including verbal and nonverbal behavior in Mandarin Chinese. Student will acquire useful terms and phrases for daily conversations and professional reports, and learn how to converse and interact appropriately in varying real-life situations.

**Requisites:** E Asian 201-202**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E ASIAN 335 – INTERMEDIATE JAPANESE CONVERSATION**

3 credits.

For students who wish to concentrate on speaking. Videotape material also used. Two hours weekly.

**Requisites:** E Asian 204**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E ASIAN 341 – CLASSICAL CHINESE FOR NON-MAJORS**

4 credits.

Basic grammar and syntax of classical Chinese to develop reading ability. The texts include Meng-tzu, Lao-tzu, the I-Ching and other Confucian and Taoist works.

**Requisites:** Cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**E ASIAN 342 – CLASSICAL CHINESE FOR NON-MAJORS**

4 credits.

Continuation of 341.

**Requisites:** Cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2013**E ASIAN 345 – THIRD SEMESTER KOREAN**

3-4 credits.

Further practice in speaking, reading and writing Korean. 4 cr for Undergrads, 3 cr for Grads

**Requisites:** E Asian 326 or satisfactory placement test scores.**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 346 – FOURTH SEMESTER KOREAN**

3-4 credits.

Continuation of East Asian 345. 4 cr for Undergrads, 3 cr for Grads

**Requisites:** E Asian 345 or satisfactory placement test scores.**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E ASIAN 347 – FIFTH SEMESTER KOREAN**

3 credits.

Further practice in reading and writing. Extensive as well as intensive readings in contemporary texts. Videotape material also used. Conducted in Korean.

**Requisites:** E ASIAN 346**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 348 – SIXTH SEMESTER KOREAN**

3 credits.

Continuation of E Asian 347. Further practice in reading and writing. Extensive as well as intensive readings in contemporary texts. Videotape material also used. Conducted in Korean.

**Requisites:** E Asian 347 or equiv**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017



**E ASIAN/RELIG ST 350 – INTRODUCTION TO TAOISM**

3-4 credits.

A study of the writings attributed to Lao-tzu and Chuang-tzu and their concepts, and the history and various aspects of religious Taoism. Consideration is given to Taoist influences on literature. Undergraduate majors register for 4 cr; non-majors and graduate majors register for 3 cr.

**Requisites:** So st; Undergrad majors register for 4 cr, Undergrad non-majors and Grad stdts register for 3 cr

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E ASIAN 351 – SURVEY OF CHINESE LITERATURE**

3 credits.

A critical introduction to the literature of China throughout the ages. Works include poetry, fiction and drama. Each student will be required to do one independent project, using Chinese language sources, if appropriate. This course may be taken independently from 352.

**Requisites:** One yr of Chinese or equiv

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E ASIAN 352 – SURVEY OF CHINESE LITERATURE**

3 credits.

Continuation of E Asian 351. Each student will be required to do one independent project using Chinese language sources if appropriate. The two semesters may be taken independently.

**Requisites:** One yr of Chinese or equiv

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E ASIAN 353 – SURVEY OF JAPANESE LITERATURE**

3 credits.

Historical introduction to the important literary works of Japan. This course will cover the classical period, from the eighth through the mid-nineteenth century. Each student will be required to do one independent project using Japanese language sources if appropriate.

**Requisites:** One yr of Japanese or equiv

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E ASIAN 354 – SURVEY OF JAPANESE LITERATURE**

3 credits.

Covers Japanese literature from the late nineteenth through the present century, and may be taken independently of E Asian 353. Each student will be required to do one independent project using Japanese language sources if appropriate.

**Requisites:** One yr of Japanese or equiv

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E ASIAN 356 – CHINESE PAINTING**

3-4 credits.

Meets with Art History 371. See Art History 371 for information.

**Requisites:** So st

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**E ASIAN 358 – LANGUAGE IN JAPANESE SOCIETY**

3 credits.

Exploration of dynamic relationships between the language and the social structure in Japan. Study of films, TV programs, and conversations as well as research articles. Basic knowledge of Japanese is assumed, but the instruction is in English.

**Requisites:** E Asian 104 or 320 or cons insst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**E ASIAN 361 – MASTERWORKS OF JAPANESE LITERATURE: THE TALE OF GENJI**

3 credits.

Explores the themes, structure, and reception history of Japan's The Tale of Genji (ca. 1008). Primary readings done in English. Japanese majors required to use Japanese secondary sources as appropriate.

**Requisites:** So st

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E ASIAN/RELIG ST 363 – INTRODUCTION TO CONFUCIANISM**

3 credits.

The development of Confucianism in pre-Buddhist China emphasizing interactions with competing viewpoints. Particular attention to issues of morality and human nature, stressing the roots of Confucianism in more general theories of value. All readings in translation.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2014**E ASIAN 367 – JAPANESE POETIC TRADITION**

3-4 credits.

An introduction to the major types of Japanese poetry, ancient and modern. Although some attention to historical context is given, the emphasis is on critical reading and appreciation of Japanese poetry in translation. To qualify for four credits, students must complete a project based on their reading of Japanese poetry in the original language or of scholarly work on the subject in Japanese.

**Requisites:** Jr st; Undergrad majors, 4 cr; non-major Undergrads Grads, 3 cr**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**E ASIAN 368 – TOPICS IN JAPANESE PROFESSIONAL COMMUNICATION**

1-3 credits.

Further development of communication skills in Japanese. Prior registration, students must consult with the instructor to determine a specific academic or professional area in which they plan to develop their proficiency. Recommended only to those who have received B or above in E Asian 204, or those who have obtained the sufficient level of proficiency to undertake the required assignments that involve writing and presenting multiple paragraph length reports on academic or professional topics

**Requisites:** E Asian 204 or cons inst.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2013**E ASIAN 371 – TOPICS IN CHINESE LITERATURE**

2-3 credits.

Development of a particular theme, period, or genre in Chinese literature. Possible topics: Love and friendship in Chinese literature; the role of nature in Chinese poetry; and conflict between individual freedom and duty to society in modern Chinese literature. Translations of literary merit serve as the principal texts, but students of Chinese are required to do some reading in the original. Open to Fr with cons inst.

**Requisites:** So st**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E ASIAN 372 – TOPICS IN CHINESE: STUDY ABROAD**

1-6 credits.

A course carried with a UW-Madison study abroad program which has no equivalent on this campus.

**Requisites:** Current reg in a UW-Madison study abroad prgm**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**E ASIAN 373 – TOPICS IN JAPANESE: STUDY ABROAD**

1-6 credits.

A course carried with a UW-Madison study abroad program which has no equivalent on this campus.

**Requisites:** Current reg in a UW-Madison study abroad prgm**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**E ASIAN/E P D 374 – INTERMEDIATE TECHNICAL JAPANESE I**

3 credits.

Fundamentals of Japanese grammar and the most frequent 300 Kanji in the physical sciences; reading, comprehending and translating Japanese scientific texts. Does not satisfy LS language or major requirement

**Requisites:** E Asian 203 or cons inst.**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN/E P D 375 – INTERMEDIATE TECHNICAL JAPANESE II**

3 credits.

Continuation of 374; development of a Kanji frequency list and translation of a technical article. Does not satisfy LS language or major requirement

**Requisites:** EPD/E Asian 374 or cons inst.**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** No**Last Taught:** Spring 2017

**E ASIAN 376 – MANGA.**

3 credits.

Surveys the manga (Japanese comicbook) from its precursors in premodern woodblock-printed booklets to its contemporary manifestations in subgenres like shonen, gekiga, mecha, and shojo. Draws upon critical writings on visual culture, literature, and visual-verbal narrative.

**Requisites:** E Asian 104 or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN/E P D 377 – BUSINESS JAPANESE COMMUNICATION**

3 credits.

Improvement of oral and written communication skills that are specific to business contexts. Review of essential grammar and honorific expressions for proper styles of communication. Development of the understanding of cultural and geographical factors that influence business practices in Japan.

**Requisites:** E Asian 203-204 or equiv prev lang training (consult instr)**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E ASIAN 378 – ANIME**

3 credits.

Surveys anime (Japanese animation) from 1930s shorts through contemporary feature-length, experimental, and televised serial-form productions. Draws on critical writings on postmodernism, digital cinema, and visual culture. Some Japanese language ability is required.

**Requisites:** E ASIAN 104**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2016**E ASIAN 379 – BUSINESS CHINESE**

3 credits.

Introduces learners of Chinese to the culture, commerce, and etiquette in the Chinese society. Students will acquire a working knowledge of the vocabulary and expressions that are essential for business transactions. They will also learn culturally applicable business strategies and understand Chinese people's expectations, concerns and needs.

**Requisites:** 2 yrs Chinese or equiv**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E ASIAN 401 – SEVENTH SEMESTER CHINESE**

3 credits.

Extensive readings in advanced general and specialized texts in contemporary Chinese, and discussion on the content of the reading materials. Videotape materials also used. Conducted in Chinese. Three hours weekly.

**Requisites:** E ASIAN 302**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 402 – EIGHTH SEMESTER CHINESE**

3 credits.

Continuation of E Asian 401.

**Requisites:** E Asian 401 or satisfactory placement test scores**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E ASIAN 403 – SEVENTH SEMESTER JAPANESE**

3 credits.

Extensive readings in advanced general and specialized texts in contemporary Japanese, and discussion on the content of the reading materials. Videotape materials also used. Conducted in Japanese. Three hours weekly.

**Requisites:** E Asian 304 or satisfactory placement test scores**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 404 – EIGHTH SEMESTER JAPANESE**

3 credits.

Continuation of 403.

**Requisites:** E Asian 403 or satisfactory placement test scores**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**E ASIAN 405 – SEVENTH SEMESTER KOREAN**

3 credits.

Extensive readings in advanced general and specialized texts in Korean, and discussion on the content of the reading materials. Videotape material also used. Conducted in Korean.

**Requisites:** E Asian 348 or equiv**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 406 – EIGHTH SEMESTER KOREAN**

3 credits.

Continuation of E Asian 405. Extensive readings in advanced general and specialized texts in Korean, and discussion on the content of the reading materials. Videotape material also used. Conducted in Korean.

**Requisites:** E Asian 405 or equiv**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E ASIAN 431 – INTRODUCTION TO CHINESE LINGUISTICS**

3 credits.

Phonology, morphology and syntax of the modern standard colloquial language, including historical, philological, and dialectal aspects.

**Requisites:** E ASIAN 202**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 432 – INTRODUCTION TO CHINESE LINGUISTICS**

3 credits.

Continuation of E Asian 431.

**Requisites:** E Asian 431 or equiv**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E ASIAN 433 – TOPICS IN EAST ASIAN VISUAL CULTURES**

3 credits.

Topics in the study of the visual cultures of East Asia from antiquity to the present. Focuses on illustrative texts and genres, major historiographic, theoretical, and methodological issues, and the technologies of vision and visuality in China, Japan, and Korea.

**Requisites:** Jr or Sr st**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E ASIAN 434 – INTRODUCTION TO JAPANESE LINGUISTICS**

3 credits.

Phonology, morphology and syntax of the modern standard colloquial Japanese, including historical and dialectal aspects.

**Requisites:** LINGUIS/ANTHRO 301 or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN/LCA/RELIG ST 466 – BUDDHIST THOUGHT**

3 credits.

Survey of the fundamental trends in Buddhist thought through the works of major philosophers. Themes include the concept of "selflessness" and concomitant theories of essencelessness, perception, language and rationality. Previous study of Buddhism or philosophy is strongly recommended. Prev study of Buddhism or philos strongly recommended.

**Requisites:** So st or cons inst.**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E ASIAN 501 – FIFTH-YEAR CHINESE**

3 credits.

Continuation of E Asian 401-402 (seventh and eighth semester Chinese), with emphasis on reading with speed a variety of Chinese texts with discussion in Chinese.

**Requisites:** E Asian 402 or equiv; course repeatable only with cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012

**E ASIAN 520 – POPULAR CULTURE AND FILM IN TWENTIETH-CENTURY CHINA**

3 credits.

A historical narrative of popular culture from the turn of the century to contemporary China, Taiwan, and Hong Kong. Offered in a seminar format.

**Requisites:** Jr st cons inst; no knowledge of Chinese required

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E ASIAN 563 – READINGS IN MODERN JAPANESE LITERATURE**

3 credits.

Extensive readings in modern Japanese literature and discussion of literary content.

**Requisites:** E Asian 404

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**E ASIAN 564 – READINGS IN MODERN JAPANESE LITERATURE**

3 credits.

Continuation of 563.

**Requisites:** E Asian 563

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E ASIAN 571 – READINGS IN CLASSICAL CHINESE LITERATURE**

3 credits.

Extensive readings in classical Chinese literature with one semester devoted principally to poetry and the other to prose.

**Requisites:** E Asian 422

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**E ASIAN 573 – READINGS IN CLASSICAL JAPANESE LITERATURE**

3 credits.

A close reading and translation of selected texts in Classical Japanese literature. Includes such works as Genji Monogatari, plays of the Noh Theatre, and Saikaku.

**Requisites:** E Asian 404 or equiv

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E ASIAN 574 – READINGS IN CLASSICAL JAPANESE LITERATURE**

3 credits.

Continuation of 573.

**Requisites:** E Asian 573 or equiv

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**E ASIAN/E P D 601 – JAPANESE FOR BUSINESS AND INDUSTRY**

3-4 credits.

Business language and commercial practices in contemporary Japanese society.

**Requisites:** EPD/E Asian 375 or E Asian 304 or consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**E ASIAN/E P D 602 – JAPANESE FOR POLITICS AND GOVERNMENT**

3-4 credits.

Language and patterns of expression used in political discourse and policymaking in Japan.

**Requisites:** EPD/E Asian 375 or E Asian 304 or consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**E ASIAN 622 – TEACHING OF CHINESE**

3 credits.

Methods of teaching Chinese as a second language including comparative study of Chinese and English structure, introduction to teaching techniques.

**Requisites:** Cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**E ASIAN 623 – TEACHING OF JAPANESE AS A FOREIGN LANGUAGE**

3 credits.

Methods of foreign language teaching in general and Japanese language teaching in particular; with emphasis on special problems in teaching Japanese to English-speaking students.

**Requisites:** Current enrollment in the Grad program in Japanese, or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**E ASIAN 631 – HISTORY OF THE CHINESE LANGUAGE**

3 credits.

Introduction to Chinese historical linguistics, including the sound systems of the Shih-ching, T'ang poems, and Yuan songs, and their historical relations to the sounds of modern Mandarin, and syntactic interaction between classical and vernacular Chinese.

**Requisites:** Cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 632 – HISTORY OF THE CHINESE LANGUAGE**

3 credits.

Continuation of 631.

**Requisites:** Cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**E ASIAN 651 – HISTORY OF CHINESE LITERATURE**

3 credits.

First semester: period up to and including the T'ang dynasty; Second semester: period since the T'ang.

**Requisites:** E Asian 422 or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**E ASIAN 652 – HISTORY OF CHINESE LITERATURE**

3 credits.

Continuation of 651.

**Requisites:** E Asian 651 or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2014**E ASIAN 661 – HISTORY OF CHINESE THOUGHT, PART 1**

3 credits.

The first half of a two-course sequence promoting a familiarity with the fundamentals of Chinese thought, philosophical and religious. The focus is on the pre-Qin period, paying particular attention to competing theories of value.

**Requisites:** Cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2014**E ASIAN 662 – HISTORY OF CHINESE THOUGHT, PART 2**

3 credits.

The second half of a two-course sequence promoting a familiarity with the fundamentals of Chinese thought, philosophical and religious. The focus is on the dynastic period, from Qin Han through Qing, emphasizing the cross-fertilization between traditions and the role of commentary.

**Requisites:** Cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E ASIAN 671 – LITERARY STUDIES IN CHINESE DRAMA**

3 credits.

Intensive study of selected dramatic texts.

**Requisites:** E Asian 302 or equiv**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014



**E ASIAN 672 – LITERARY STUDIES IN CHINESE FICTION**

3 credits.

Intensive study of selected short story and novel texts.

**Requisites:** E Asian 462 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**E ASIAN 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E ASIAN 691 – SENIOR THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2006**E ASIAN 692 – SENIOR THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 1999**E ASIAN 698 – DIRECTED STUDY**

2-3 credits.

Graded on a Cr/N basis; requires cons inst

**Requisites:** Jr or Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2017**E ASIAN 699 – DIRECTED STUDY**

2-3 credits.

Graded on a lettered basis; requires cons inst

**Requisites:** Jr or Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E ASIAN 701 – PROSEMINAR IN CHINESE LITERATURE**

3 credits.

Acquaints entering graduate students with the history of the study of Chinese literature in the West, with the basic reference tools and methodologies, and with the various critical approaches to Chinese literature.

**Requisites:** BA in Chinese or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**E ASIAN 741 – STUDIES IN CHINESE SYNTAX AND MORPHOLOGY**

3 credits.

Syntax and morphology of a selected corpus of Chinese texts. May be repeated.

**Requisites:** E Asian 631-632**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**E ASIAN 761 – STUDIES IN CHINESE HISTORICAL TEXTS**

3 credits.

Selected readings from various histories prior to the twentieth century.

**Requisites:** E Asian 572 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**E ASIAN 762 – STUDIES IN CHINESE PHILOSOPHICAL TEXTS**

3 credits.

Selected texts, emphasis on pre-Han period.

**Requisites:** E Asian 572 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**E ASIAN 763 – STUDIES IN JAPANESE LITERATURE**

3 credits.

One of the general fields such as theater, fiction, etc., studied intensively. May be repeated.

**Requisites:** E Asian 564 574 or equiv cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E ASIAN 775 – STUDIES IN JAPANESE LINGUISTICS**

3 credits.

One of the general fields such as phonology, morphology, syntax, dialectology, etc. May be repeated.

**Requisites:** E Asian 434 or equiv cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E ASIAN 799 – READING FOR RESEARCH**

1-3 credits.

For students in the department who have passed the qualifying exam and who are reading for their preliminary exam. (May be repeated.)

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**E ASIAN 833 – TOPICS IN EAST ASIAN VISUAL CULTURES**

3 credits.

Topics in the study of the visual cultures of East Asia from antiquity to the present. Focuses on illustrative texts and genres, major historiographic, theoretical, and methodological issues, and the technologies of vision and visuality in China, Japan, and Korea.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E ASIAN 932 – SEMINAR IN CHINESE LINGUISTICS**

2-3 credits.

Rotating subjects; a student may enroll as many times as needed.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**E ASIAN 951 – SEMINAR IN CHINESE LITERATURE**

3 credits.

Rotating subjects; a student may enroll as many times as needed.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**E ASIAN 971 – SEMINAR IN CHINESE THOUGHT**

3 credits.

Rotating subjects relating to Chinese philosophies and religions.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**E ASIAN 990 – THESIS RESEARCH**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E ASIAN 999 – INDEPENDENT RESEARCH**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ECONOMICS (ECON)****ECON 100 – ECONOMIC APPROACH TO CURRENT ISSUES**

3-4 credits.

Emphasizes current economic issues and illustrates how the economist's perspective helps understand them. Academic readings and popular books such as Freakonomics will be used to indicate the breadth and scope of questions that can be analyzed from an economic perspective. Does not count towards the economics major.

**Requisites:** Not open to students with credit for an ECON course numbered 301 or greater**Course Designation:** Breadth - Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ECON 101 – PRINCIPLES OF MICROECONOMICS**

4 credits.

Economic problems of individuals, firms and industries with emphasis on value, price, and distribution of income. Must be taken before 102. Open to Fr. No honors avail

**Requisites:** Successful completion of or exemption from Quantitative Reasoning A requirement.

**Course Designation:** Gen Ed - Quantitative Reasoning Part B  
Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON 102 – PRINCIPLES OF MACROECONOMICS**

3-4 credits.

Macroeconomic measurement and models of aggregate demand and supply; fiscal and monetary policy for unemployment, inflation, and growth.

**Requisites:** ECON 101 or A A E 215

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON 109 – STUDY ABROAD IN INTRODUCTORY ECONOMICS**

1-4 credits.

Provides an equivalency for introductory level economics courses taken on UW-Madison study abroad programs.

**Requisites:** Enrollment in a UW-Madison study abroad program

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**ECON 111 – PRINCIPLES OF ECONOMICS-ACCELERATED TREATMENT**

4 credits.

Integrated treatment of macroeconomics and microeconomics (see ECON 101 and 102). Accelerated approach to economics training, especially for Econ Opt. B majors. Not open to students that have taken ECON 101 or ECON 102

**Requisites:** Placement into MATH 221 or higher or equivalent math proficiency.

**Course Designation:** Gen Ed - Quantitative Reasoning Part B  
Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Accelerated Honors (!)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON 228 – INTERNSHIP ECONOMICS**

1 credit.

Internship in economics related field. 5 or higher in major. Completion of at least 4 economics classes at UW-Madison. Completion of at least one intermediate theory class (ECON 301 or 311, ECON 302 or 312). Approval/authorization to registrar. To be granted by the Undergraduate Committee after review of offer letter and proposal form.

**Requisites:** Declared Economics Major with GPA of 2.

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, for 2 number of completions

**Last Taught:** Fall 2017

**ECON 299 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**ECON/FINANCE 300 – INTRODUCTION TO FINANCE**

3 credits.

Concepts and techniques in corporate finance and investments. Topics include the financial environment, securities markets, financial markets, financial statements and analysis, working capital management, capital budgeting, cost of capital, dividend policy, asset valuation, investments, decision making under uncertainty, mergers, options, and futures.

**Requisites:** So, Jr or Sr st; ECON 101 or AAE 215; Acct IS 100 or 300; Gen Bus 303 or equiv or con reg

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON 301 – INTERMEDIATE MICROECONOMIC THEORY**

4 credits.

Contemporary theory of consumption, production, pricing and resource allocation.

**Requisites:** Any two intro econ courses and one semester calc (MATH 221 or 211; MATH 221 recommended)

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON 302 – INTERMEDIATE MACROECONOMIC THEORY**

4 credits.

Principles and theories of national income determination, analysis of savings, consumption, investment and other aggregates in the national and international economy and relation to employment, inflation and stabilization.

**Requisites:** Any two intro econ courses and one semester calc (MATH 221 or 211; MATH 221 recommended)

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON/HIST SCI 305 – DEVELOPMENT OF ECONOMIC THOUGHT**

3-4 credits.

Development of economic thought from the middle ages to the present; emphasis on major schools of thought including Classical, Marxian, Neo-Classical, and Keynesian schools.

**Requisites:** Any two intro econ courses or cons inst

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON/A A E/REAL EST/URB R PL 306 – THE REAL ESTATE PROCESS**

3 credits.

Introductory survey course. Decision-making processes for the manufacture, marketing, management and financing of real estate space. Survey of institutional context, economics of urbanization, historical pattern and structure of city growth, and public policy issues regarding urban environment and business management.

**Requisites:** So, Jr, or Sr st; ECON 101

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON 309 – STUDY ABROAD IN INTERMEDIATE ECONOMICS**

1-4 credits.

Provides an equivalency for intermediate level economics courses taken on UW-Madison study abroad programs. Completion of an intro microecon crse an intro macroecon crse

**Requisites:** Enrollment in a UW-Madison study abroad prog.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ECON 310 – STATISTICS: MEASUREMENT IN ECONOMICS**

4 credits.

Introduction to analysis of economic data. The techniques of descriptive statistics and statistical inference (hypothesis testing and estimation) as directed toward application in economic research.

**Requisites:** One intro econ course MATH 221 or 211; students with previous stat course must have consent of instructor

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON 311 – INTERMEDIATE MICROECONOMIC THEORY - ADVANCED TREATMENT**

3 credits.

A mathematical approach to the theory of consumption, production, pricing and resource allocation. Not open to students who have taken ECON 301

**Requisites:** MATH 222, ECON 101 102 or ECON 111; or cons inst.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Accelerated Honors (!)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON 312 – INTERMEDIATE MACROECONOMIC THEORY - ADVANCED TREATMENT**

3 credits.

A mathematical approach to the principles and theories of national income determination, analysis of savings, consumption, investment and other aggregates in the national and international economy and relation to employment, inflation, and stabilization. Students who have completed ECON 302 or are concurrently enrolled in ECON 302 are not allowed to enroll for this class.

**Requisites:** Students must have completed MATH 222 and ECON 101 and ECON 102 (or ECON 111).

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Accelerated Honors (!)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ECON/FINANCE 320 – INVESTMENT THEORY**

3 credits.

Structure and functioning of securities markets; principles of portfolio construction; models of the tradeoff between risk and expected return.

**Requisites:** Sophomore, Junior or Senior standing; MATH 213 or 222;

Finance/ECON/FINANCE 300; Gen Bus 304 or equivalent or concurrent registration

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON 330 – MONEY AND BANKING**

4 credits.

Monetary economics; the role of money in the determination of output, prices and interest rates; commercial and central banking, monetary policy, the international monetary system.

**Requisites:** ECON 101, ECON 102, or ECON 111

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON/A A E/ENVIR ST 343 – ENVIRONMENTAL ECONOMICS**

3-4 credits.

Microeconomic principles underlying the use of natural resources such as air, water, forests, fisheries, minerals and energy. These principles are applied in the examination of pollution control, preservation vs. development, deforestation, and other environmental issues.

**Requisites:** A A E 215, ECON 101, or ECON 111

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON 364 – SURVEY OF INTERNATIONAL ECONOMICS**

3-4 credits.

Contemporary theory of international trade and finance applied to current economic events. Not recommended for economics majors. Not open to students who have taken ECON 464 or ECON 301 (or 311).

**Requisites:** Not open to students who have taken Economics 464.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**ECON 390 – CONTEMPORARY ECONOMIC ISSUES**

3 credits.

Topics vary; number used for experimental courses.

**Requisites:** Prerequisites vary by topic

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ECON 409 – STUDY ABROAD IN ADVANCED ECONOMICS**

1-4 credits.

Provides an equivalency for advanced level economics courses taken on UW-Madison study abroad programs for which there is no exact UW-Madison equivalent. Course must be of equal rigor to those offered on campus. To receive this equivalent, departmental pre-approval is required. Completion of an intermed microecon crse and/or intermed macroecon crse

**Requisites:** Enrollment in a UW-Madison study abroad prog.

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ECON 410 – INTRODUCTORY ECONOMETRICS**

4 credits.

Statistical methods used in applied economic research. Topics include: survey methods and data sources; multiple regression and analysis of variance; econometric estimation; forecasting and policy applications. Undergrads have enrollment priority

**Requisites:** ECON 310 MATH 221.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON/REAL EST/URB R PL 420 – URBAN AND REGIONAL ECONOMICS**

3 credits.

Nature and structure of urban economies; location of economic activity; economic analysis in an urban framework; principles of urban economic development, housing, transportation, poverty and unemployment and municipal finance. Forecasting of economic activity using census and socioeconomic data.

**Requisites:** ECON 101

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON/A A E 421 – ECONOMIC DECISION ANALYSIS**

4 credits.

Managerial oriented, applied presentation of microeconomic theory. Quantitative emphasis with extensive homework use of spreadsheets and written executive summaries of applied economic analyses. Applications on natural resources and agricultural markets.

**Requisites:** ECON 301 STAT 301, or equiv

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON 435 – THE FINANCIAL SYSTEM**

3 credits.

Continuation of 330. Banking, credit markets and financial institutions, monetary and debt management policies; relation of national monetary and credit institutions to the international system.

**Requisites:** (ECON 301 or ECON 311) and (ECON 302 or ECON 312) and ECON 330

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON 440 – URBAN AND REGIONAL ECONOMICS**

3 credits.

Economic theories of the nature and function of cities with emphasis on classical location theory. Theory of urban and regional planning in a market economy. Examination of selected problems, e.g.: housing, land-use and transportation; urban economic history; regional development; fiscal federalism.

**Requisites:** ECON 301 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 1990

**ECON 441 – ANALYTICAL PUBLIC FINANCE**

3-4 credits.

Analyzes the problems of the public sector in dealing with domestic issues of education, urban areas, welfare, natural resources, and the environment; provides students with opportunity to apply the tools of economic analysis that are pertinent to domestic public sector problems.

**Requisites:** ECON 301 or consent of instructor; may not be taken for credit by stdts who have already taken Econ 340

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON 442 – MACROECONOMIC POLICY**

3-4 credits.

This course will address current issues in modern macroeconomic policymaking. Topics include: fiscal and monetary policy, financial and sovereign debt crisis, and financial regulation.

**Requisites:** Must have completed ECON 301 or 311, and ECON 302 or 312, and ECON 310

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ECON 448 – HUMAN RESOURCES AND ECONOMIC GROWTH**

3-4 credits.

Theoretical and empirical analysis of public and private investment in people, emphasizing the contribution to productivity of education, training, health, and mobility.

**Requisites:** ECON 301 (or 311) or consent of instructor

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ECON/ENVIR ST/POLI SCI/URB R PL 449 – GOVERNMENT AND NATURAL RESOURCES**

3-4 credits.

Problems of public policy and administration for development and use of natural resources.

**Requisites:** Junior standing

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**ECON 450 – WAGES AND THE LABOR MARKET**

3-4 credits.

Economic and institutional forces which determine labor supply and demand; wage theories, wages in the economy, the labor force, unemployment, wages, labor mobility, functioning of labor markets.

**Requisites:** ECON 301

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON 451 – THE ECONOMIC APPROACH TO HUMAN BEHAVIOR**

3 credits.

The economic analysis of "non-economic" topics such as the family, crime, politics and religion.

**Requisites:** ECON 301

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016



**ECON 455 – BEHAVIORAL ECONOMICS**

3-4 credits.

Empirical evidence documenting departures in human decision making from rational norms, and alternative theoretical approaches to explaining this behavior grounded based upon psychological enrichments of standard rational actor model. Topics include paradox of choice, loss aversion, time inconsistent preferences, and social preferences.

**Requisites:** (ECON 301 or ECON 311) and ECON 310**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ECON 458 – INDUSTRIAL STRUCTURE AND COMPETITIVE STRATEGY**

3 credits.

Analysis of competition among firms and its effect on industrial structure. Theoretical models and case studies are used. Topics include: entry barriers, price competition dynamics, entry and exit strategies, and competitive tactics such as product differentiation, advertising, and technological change.

**Requisites:** ECON 301**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ECON 460 – ECONOMIC FORECASTING**

3-4 credits.

Introduction to econometric time series analysis, forecasting methods, and forecast evaluation. The course will cover theoretical, methodological and applied topics, and much of the work will be hands-on data analysis.

**Requisites:** ECON 410 must have already been taken or the student can be concurrently enrolled in it.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ECON/A A E/INTL BUS 462 – LATIN AMERICAN ECONOMIC DEVELOPMENT**

3 credits.

A historico-institutional analysis of development problems in the principal Latin American countries, with attention to differentiation of national growth patterns and alternative development strategies.

**Requisites:** ECON 102 or 111 and Jr st**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ECON 464 – INTERNATIONAL TRADE AND FINANCE**

3-4 credits.

Contemporary theory of international trade and finance developed and applied to current problems in international economic relations.

**Requisites:** (ECON 301 or ECON 311) and (ECON 302 or ECON 312); not open to students who have taken ECON 364**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ECON/HISTORY 465 – THE AMERICAN ECONOMY TO 1865**

3-4 credits.

Survey of the forces underlying American economic development and the distribution of income; rise of regional economies; origins of manufacturing; effects of slavery; influence of government and politics on growth.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ECON/HISTORY 466 – THE AMERICAN ECONOMY SINCE 1865**

3-4 credits.

Emergence of the large corporation; growth and instability since the mid-nineteenth century; increasing government participation in the economy; the impact of war, depression, discrimination, and international responsibilities.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ECON 467 – INTERNATIONAL INDUSTRIAL ORGANIZATIONS**

3-4 credits.

Study of competition among firms in an international environment (theoretical analysis and policy applications). Topics include: strategic trade, trade agreements and intellectual property rights issues, RD and technology transfers, multinational firms.

**Requisites:** ECON 301 or consent of instructor**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**ECON 468 – INDUSTRIAL ORGANIZATION AND IMPERFECT COMPETITION**

3-4 credits.

An overview of the theory of industrial organization, including the study of oligopolistic behavior, monopolistic competition, product differentiation and the dynamic behavior of competitive industries under uncertainty.

**Requisites:** Student needs to have taken ECON 301 (or 311) and MATH 221 (or 217)

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON/A A E 473 – ECONOMIC GROWTH AND DEVELOPMENT IN SOUTHEAST ASIA**

3 credits.

Evaluates economic development strategies in Southeast Asia and their implications for growth, distribution and environment. Students learn trade and development theory as well as specific knowledge of Southeast Asian economic development.

**Requisites:** Two crses in AAE and/or Econ, or cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ECON/A A E 474 – ECONOMIC PROBLEMS OF DEVELOPING AREAS**

3 credits.

Analyzes aggregate growth, income distribution and poverty in lower income economies. Uses microeconomics of imperfect labor, capital and insurance markets to explore why some individuals advance economically as their economies grow and others fall behind. Considers implications of aggregate and micro analysis for national and international economic policy.

**Requisites:** Sr st and two crses in econ

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ECON 475 – ECONOMICS OF GROWTH**

3-4 credits.

Theoretical analysis of issues in growth and development. Models will be motivated by country experiences. Topics include: factors affecting saving, investment and cross-country differentials on per capita income; the role of government institutions, market regulation, technology and trade.

**Requisites:** ECON 301 or 311, ECON 302 or 312 and MATH 221 with a grade of B or higher, or cons inst

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ECON/A A E 477 – AGRICULTURAL AND ECONOMIC DEVELOPMENT IN AFRICA**

3 credits.

Composition, organization, and techniques of agricultural production; economic change and development of agriculture, economic policies, special problems of developing African agriculture.

**Requisites:** Two crses in AAE and/or Econ, or cons inst

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON 502 – ECONOMICS OF TRANSPORTATION**

3 credits.

Influence of transport costs on economic development, industrial location and market penetration; economic characteristics of carriers; pricing policies and practices in transport; interrelationship of public policy issues and decisions by suppliers and users of transportation.

**Requisites:** ECON 101

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**ECON 503 – MARKETS WITH FRICTIONS**

3-4 credits.

Search theory provides framework for understanding markets; is used to study questions in monetary, public, financial economics. This course will develop theoretical tools used to introduce frictions in formal models; will address the role of frictions in several applied scenarios.

**Requisites:** Enrollment limited to students with a grade of B or higher in ECON 301 or ECON 311; and a grade of B or higher in ECON 302 or ECON 312; and a grade of B or higher in MATH 221

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ECON 508 – WEALTH AND INCOME**

3 credits.

Origins of inequality in income and wealth – bequests, human capital, property division, productivity, and demographic change. Primary focus on the United States, with some international comparisons. Measurement of redistribution effected by social insurance, inflation, and tax-transfer systems. Empirical, oriented towards policy analysis and measurement.

**Requisites:** A course in statistics ECON 301 or 311 or cons inst

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**ECON 521 – GAME THEORY AND ECONOMIC ANALYSIS**

3-4 credits.

The study of multi-agent, interactive decision problems, with emphasis on questions of coordination, cooperation and conflict. Applications include relations between countries, competition between firms, bargaining between unions and firms, and contests between political candidates.

**Requisites:** ECON 301, MATH 222**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ECON 522 – LAW AND ECONOMICS**

3-4 credits.

Economic analysis of legal rules and institutions with emphases on how different areas of law influence individual incentives. Specific topics include: (1) property, (2) contracts, (3) torts, (4) legal procedure and (5) criminal law.

**Requisites:** ECON 301 or consent of instructor**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ECON/PHILOS 524 – PHILOSOPHY AND ECONOMICS**

3 credits.

Economics examined from the viewpoint of the philosophy of science. Normative and positive aspects of economic theory. Deterministic and statistical explanation. Arrow impossibility theorem. Radical economics. Team taught by a philosopher and an economist.

**Requisites:** Enrollment limited to students with Junior Standing or higher and have taken 3 credits in Economics or Philosophy**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ECON 525 – ECONOMICS OF EDUCATION: THEORY AND MEASUREMENT**

3 credits.

Application of theoretical and empirical methods of economics to education policy. Emphasis in econometrics analysis and critical evaluation of empirical research. Writing intensive course.

**Requisites:** Must have completed Economics 301 or 311 and Economics 410 or concurrent enrollment**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2014**ECON/A A E 526 – QUANTITATIVE METHODS IN AGRICULTURAL AND APPLIED ECONOMICS**

4 credits.

Use of quantitative methods (mathematics, statistics, and optimization) to analyze problems faced by decision makers in natural resources and agriculture. Extensive homework requiring use of quantitative methods via spreadsheet tools to solve problems from an applied decision context.

**Requisites:** MATH 211, ECON 301, STAT 301, or equiv**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ECON/A A E/F&W ECOL 531 – NATURAL RESOURCE ECONOMICS**

3 credits.

Economic concepts and tools relating to management and use of natural resources, including pricing principles, cost-benefit analysis, equity, externalities, economic rent, renewable and nonrenewable resources, and resource policy issues.

**Requisites:** ECON 301 and MATH 211, or equiv**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ECON/POP HLTH/PUB AFFR 548 – THE ECONOMICS OF HEALTH CARE**

3-4 credits.

Analysis of the health care industry. Markets for hospitals and physicians' care, markets for health manpower, and the role of health insurance.

**Requisites:** ECON 301, ECON 311, or PUB AFFR 880**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ECON/A A E 567 – PUBLIC FINANCE IN LESS DEVELOPED COUNTRIES**

3 credits.

Potential and limitations of fiscal policy as a development instrument in low-income countries; tax harmonization in economic integration; case studies in tax reform; budgeting and planning.

**Requisites:** Intro crse in econ thry, public finance or econ dev**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2012

**ECON 580 – HONORS TUTORIAL IN RESEARCH PROJECT DESIGN**

3 credits.

Students will be required to criticize research by others, to draft a research proposal and to complete a project that requires original research.

**Requisites:** Must have completed Economics 301 or 311 Economics 302 or 312 and Economics 410

**Course Designation:** Gen Ed - Communication Part B  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Honors - Accelerated Honors (!)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ECON 581 – HONORS THESIS**

3 credits.

Students will work on their honor thesis.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Honors - Accelerated Honors (!)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON 590 – TUTORIAL IN RESEARCH PROJECT DESIGN**

3 credits.

Students will be required to draft a research proposal that is analogous to a NSF proposal or a Ph.D. prospectus and critique research proposals and existing undergraduate theses. They will also complete a project that requires original research incorporating one of the following: use of statistical software; simulation experiment using existing software; design and pretest a human subjects experiment; draft an interview instrument; or a comparable project. Student may be enrolled in 410 at same time.

**Requisites:** Student must have taken ECON 301 (or 311), ECON 302 (or 312) and ECON 410.

**Course Designation:** Gen Ed - Communication Part B  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**ECON 606 – MATHEMATICAL ECONOMICS II**

3-4 credits.

Advanced mathematical topics and techniques used in economic analysis. Deterministic and Stochastic Control Theory emphasized.

**Requisites:** Econ 605 or equiv

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**ECON 623 – POPULATION ECONOMICS**

3-4 credits.

Examination of economic determinants of population change and demographic behavior including household formation, marriage, child bearing and rearing, mortality (especially infant) and key forms of human capital investments including schooling and migration.

**Requisites:** Must have taken ECON 301 or ECON 311 and must have taken ECON 310

**Course Designation:** Breadth - Social Science  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ECON/REAL EST/URB R PL 641 – HOUSING ECONOMICS AND POLICY**

3 credits.

The economic principles underlying the dynamics of the housing market; filtering, neighborhood decline and abandonment gentrification, tenure choice, mortgage choice, prepayment, mobility, mortgage default, submarket identification, racial discrimination and segregation. Examination of governmental programs affecting the housing market and their objectives and impacts; public and subsidized housing, zoning and land use regulation, rent and price controls, property and income tax policy.

**Requisites:** Real Est 420 or con reg or cons inst

**Course Designation:** Breadth - Social Science  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**ECON/SOC 663 – POPULATION AND SOCIETY**

3 credits.

Social and economic determinants and consequences of contemporary and historical population trends in both developed and developing societies. Fertility, mortality, migration, population distribution, age structure, population growth.

**Requisites:** Any one of the following: SOC 170, SOC/C&E SOC 357, SOC/C&E SOC/POP HLTH 380, ECON 101, ECON 111, AAE 215; or consent of instructor

**Course Designation:** Breadth - Social Science  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ECON 664 – ADVANCED INTERNATIONAL TRADE**

3 credits.

Policies relating to trade, tariffs, balance of payments, and aid programs, with special emphasis on recent developments and the role played by the United States.

**Requisites:** ECON 464, or ECON 301 (or 311) and 364, or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 1998

**ECON 666 – ISSUES IN INTERNATIONAL FINANCE**

3-4 credits.

Modern institutions, history, and controversies of international financial relations. Foreign exchange market, the Euro-currency banking system, and central bank intervention in both.

**Requisites:** (ECON 301 or 311), (ECON 302 or 312), (ECON 310, STAT 302, or 311), and (MATH 221 or 275)

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON/A A E/ENVI R ST/URB R PL 671 – ENERGY ECONOMICS**

3 credits.

The method, application, and limitations of traditional economic approaches to the study of energy problems. Topics include microeconomic foundations of energy demand and supply; optimal pricing and allocation of energy resources; energy market structure, conduct, and performance; macro linkages of energy and the economy; and the economics of regulatory and other public policy approaches to the social control of energy.

**Requisites:** (Senior standing and ECON 101 or AAE 215) or graduate standing

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ECON 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2014

**ECON 682 – SENIOR HONORS THESIS**

3 credits.

Continuation of 681

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2014

**ECON 690 – TOPICS IN ECONOMICS**

2-4 credits.

Topics in economic theory and policy.

**Requisites:** Vary by topic

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ECON 691 – SENIOR THESIS**

1-3 credits.

For Econ majors not in the Honors Program.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**ECON 692 – SENIOR THESIS**

1-3 credits.

Continuation of 691

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ECON 698 – DIRECTED STUDY**

1-4 credits.

**Requisites:** Jr or Sr st; graded on a Cr/N basis; requires cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON 699 – DIRECTED STUDY**

1-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ECON 700 – MATHEMATICS FOR ECONOMISTS**

3 credits.

Mathematical techniques used in economics analysis at a Master level. Topics include: proof techniques, optimization, introductory topology, functional analysis, linear algebra for microeconomists and differential equations.

**Requisites:** 3 semesters calculus (MATH 234), linear algebra (MATH 340) or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**ECON 701 – MICROECONOMICS I**

3 credits.

First course in a two-semester sequence covering: consumer theory, producer theory, and markets under partial and general equilibrium, and with externalities or market power. The sequence will include an introduction to decision theory and game theory, and applications to auction theory and partially informed trade.

**Requisites:** 3 semesters calculus (MATH 234), linear algebra (MATH 340) Graduate standing, or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON 702 – MACROECONOMICS I**

3 credits.

First master's level macroeconomics course. A mathematical approach to the study of aggregate output determination, including analysis of consumption, labor markets, economic growth, and business cycles. Analysis of fiscal and monetary policies and their interactions.

**Requisites:** 3 semesters calculus (MATH 234), linear algebra (MATH 340), or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ECON 703 – MATHEMATICAL ECONOMICS I**

3-4 credits.

A survey of mathematical techniques used in economic analysis. Linear algebra and optimization techniques are emphasized.

**Requisites:** 2 semesters of adv calc, 1 semester of linear algebra, Grad st, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON 704 – ECONOMETRICS I**

3 credits.

Econometric methods, theory, and applications. Matrix algebra will be used. Topics include linear regression, least-squares estimation, inference, and hypothesis testing. Suitable for graduate (master's level) students.

**Requisites:** semesters calculus (MATH 234), linear algebra (MATH 340), mathematical statistics or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON 705 – ECONOMETRICS II**

3 credits.

Econometric methods, theory, and applications. Topics include instrumental variables, GMM, panel data, limited dependent variables, time series, and vector autoregressions.

**Requisites:** ECON 704 or consent of instructor.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ECON 706 – ECONOMETRICS III**

3 credits.

This course focuses on using econometric methods to address empirical questions, conduct empirical research, and write empirical papers in economics.

**Requisites:** ECON 705 or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ECON/A A E 707 – INSTITUTIONAL ECONOMICS**

3 credits.

Comparative analysis of neoclassical and institutional economics, with emphasis on economic epistemology, agency theory, transaction costs, firms and markets, property rights, externalities, welfare economics, efficiency, and rules of social choice.

**Requisites:** AAE 635 or equiv

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**ECON 708 – MICROECONOMICS II**

3 credits.

Second course in a two-semester sequence covering: consumer theory, producer theory, and markets under partial and general equilibrium, and with externalities or market power. The sequence will include an introduction to decision theory and game theory, and applications to auction theory and partially informed trade.

**Requisites:** ECON 701 or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ECON 709 – ECONOMIC STATISTICS AND ECONOMETRICS I**

3-4 credits.

Probability distributions, statistical inference; multiple linear regression; introduction to econometric methods.

**Requisites:** 2 semesters of adv calc, 1 semester of linear algebra, Grad st, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**ECON 710 – ECONOMIC STATISTICS AND ECONOMETRICS II**

3-4 credits.

Extensions of the linear regression model; introduction to multiple equation models.

**Requisites:** ECON 709**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ECON 711 – ECONOMIC THEORY-MICROECONOMICS SEQUENCE**

3 credits.

First course in a two-semester sequence: theories of firms, consumers, and markets; or partial and general equilibria in market and centralized economies; topics in welfare economics.

**Requisites:** 2 semesters of adv calc, 1 semester of lineal algebra, Grad st, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ECON 712 – ECONOMIC THEORY-MACROECONOMICS SEQUENCE**

3 credits.

First course in a two semester sequence: commodity, money and labor markets, their components and general equilibrium; intertemporal optimization and growth theory.

**Requisites:** 2 semesters of adv calc, 1 semester of lineal algebra, Grad st, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ECON 713 – ECONOMIC THEORY: MICROECONOMICS SEQUENCE**

3 credits.

Continuation of 711.

**Requisites:** ECON 711**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ECON 714 – ECONOMIC THEORY; MACROECONOMICS SEQUENCE**

3 credits.

Continuation of 712.

**Requisites:** ECON 712**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ECON 715 – ECONOMETRIC METHODS**

3 credits.

Statistical models and methods relevant to estimation and testing of economic relationships.

**Requisites:** ECON 709, 710**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ECON 716 – ECONOMETRIC METHODS**

3 credits.

Continuation of 715

**Requisites:** ECON 715**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ECON 717 – APPLIED ECONOMETRICS**

3 credits.

Mathematical formulation and empirical implementation of economic theory.

**Requisites:** ECON 715-716**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 1992**ECON 718 – TOPICS IN APPLIED ECONOMETRICS**

3 credits.

Continuation of 717

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ECON 719 – ECONOMIC STATISTICS AND ECONOMETRICS III**

3-4 credits.

Applications of econometric techniques to the analysis of production, consumer demand, and the national economy.

**Requisites:** ECON 709 710**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016

**ECON/PUB AFFR/URB R PL 734 – REGIONAL ECONOMIC PROBLEM ANALYSIS**

3 credits.

Examination of major theories of regional economic development, with special emphasis upon the evolution and amelioration of regional economic problems. Selected techniques of regional analysis, including economic base multipliers, input/output models, and shift-share analysis are used in the context of setting regional development goals.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2011**ECON 735 – MONETARY AND FINANCIAL THEORY**

3 credits.

Advanced appraisal of theory and institutions of the financial system, monetary theory, the credit system and financial intermediaries.

**Requisites:** ECON 714 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ECON 736 – MACROECONOMIC POLICY**

3 credits.

Theoretical, empirical, and institutional aspects of the use of monetary, fiscal, and income policies to affect inflation, unemployment, and other policy goals.

**Requisites:** ECON 735 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ECON 741 – THEORY OF PUBLIC FINANCE AND FISCAL POLICY**

3 credits.

Theoretical development of the functions of government in a mixed economy; welfare criteria for efficient government expenditures and taxation; nature of public goods and of redistribution activities of governments. Program budgeting and theoretical issues in cost-benefit analysis.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ECON 742 – THEORY OF PUBLIC FINANCE AND FISCAL POLICY**

3 credits.

Incidence of tax burdens and expenditure benefits on relative incomes; effect of taxation on microeconomic decisions relating to work effort, investment, and consumption; analysis of the stabilization, growth, and debt management policies in the context of the economy as a whole; problems in international taxation.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ECON/A A E 747 – FRONTIERS IN AGRICULTURAL ECONOMICS 2**

3 credits.

Organization, design, and performance of food and agricultural markets. Industrial organization; firm boundaries, contracting, and collective action; spatial, temporal, and quality dimensions of market design.

**Requisites:** ECON 709 and ECON 711**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2011**ECON 750 – LABOR ECONOMICS**

3 credits.

Theoretical and empirical analysis of labor markets, labor mobility, the determination of earnings and employment, and labor supply of the household unit; emphasizes recent research on current issues in public policy.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ECON 751 – SURVEY OF INSTITUTIONAL ASPECTS OF LABOR ECONOMICS**

3 credits.

Taught on a modular basis: Labor Theories and Labor History; Union Political Activities; Collective Bargaining and Public Policy. For use in analysis of problems in areas of labor markets, wages and human resources.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017

**ECON 761 – INDUSTRIAL ORGANIZATION THEORY**

3 credits.

A review of theories of the firm, oligopoly, and imperfect competition. Includes applications of economic theory and game theory to agency theory, product diversity, technological change, and strategic behavior by firms—among other problems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ECON 762 – EMPIRICAL ANALYSIS OF INDUSTRIAL ORGANIZATION AND PUBLIC POLICY**

3 credits.

A study of measurement in industrial organization and a survey of empirical tests of hypotheses in the field. The theory and practice of antitrust is also covered. Each student will produce an original piece of research.

**Requisites:** ECON 761 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ECON/GEN BUS/STAT 775 – INTRODUCTION TO BAYESIAN DECISION AND CONTROL I**

3 credits.

Common sampling models in business and economic problems, information from data, likelihood function of parameters, choices of models, Bayes' Theorem, subjective basis for probability, sequential nature of Bayesian inference, prior and posterior distributions of parameters in binomial, poisson, exponential and normal populations, comparison of two normal distributions, predictive distributions, decision theory, utility, risk aversion, extensive form of analysis, two-action problems, point estimation, best population problems, economics of sampling.

**Requisites:** MATH/STAT/MATH 309 or STAT 311**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ECON 805 – ADVANCED MICROECONOMIC THEORY I**

3 credits.

Economic behavior under uncertainty; measure of risk, information structure, stock market and asset pricing, insurance theory, asymmetric information and incentive mechanisms.

**Requisites:** ECON 713 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ECON 806 – ADVANCED MICROECONOMIC THEORY II**

3 credits.

General equilibrium analysis existence and computation of fixed points and competitive equilibrium, regular economics, core, non-competitive approach to perfect competition and monopolistic competition.

**Requisites:** ECON 713 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ECON 809 – TOPICS IN MICROECONOMIC THEORY**

1-3 credits.

Topics in microeconomic theory. Subject changes each semester; may be repeated.

**Requisites:** ECON 711, 713**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2005**ECON 810 – ADVANCED MACROECONOMIC THEORY**

3 credits.

**Requisites:** ECON 712-714**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ECON 836 – APPLIED MACROECONOMETRIC ANALYSIS**

3 credits.

Analysis of theoretical and implementational problems of conducting multi-instrument stabilization policy. Topics: political-economic interface, policy-oriented macro models, the structures of large American econometric models, and selected problems experienced in coordinating policy instruments in recent years.

**Requisites:** ECON 712 and 714 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2011**ECON/URB R PL 845 – ADVANCED TOPICS IN PUBLIC FINANCE**

1-4 credits.

Advanced public finance problems and literature, research; subject changes each semester; may be repeated. Modules.

**Requisites:** ECON 713 and 714**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012

**ECON/POP HLTH 848 – HEALTH ECONOMICS**

1-3 credits.

Health economics issues including demand, supply and pricing, market structure, medical malpractice, technological change, value of life, role of insurance, and other aspects of uncertainty.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ECON 871 – ADVANCED INTERNATIONAL ECONOMICS**

3 credits.

General equilibrium algebraic and geometric modeling of open economies with balanced trade, and the welfare economics of international exchange and barriers thereto.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ECON 872 – ADVANCED INTERNATIONAL ECONOMICS**

3 credits.

Algebraic and geometric modeling of open macroeconomics with unbalanced trade and payments, focussing analytically on the foreign exchange market and the determinants of the exchange rate.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ECON 873 – SEMINAR-INTERNATIONAL ECONOMICS**

2-3 credits.

Individual research and group discussion of selected topics in the theory of international trade.

**Requisites:** ECON 872 Grad st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**ECON 877 – ECONOMIC DEVELOPMENT-THEORY STATISTICS AND POLICY**

2-3 credits.

Theories and issues of economic growth, with special reference to underdeveloped areas; comparative growth experience, statistical measurement; case studies of the objectives and patterns of planning.

**Requisites:** Cons inst or 1 yr of econ dev**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2009**ECON 878 – ECONOMIC DEVELOPMENT-THEORY STATISTICS & POLICY**

2-3 credits.

Continuation of 877

**Requisites:** Cons inst or 1 yr of econ dev**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2012**ECON 880 – QUANTITATIVE ECONOMIC POLICY**

1-3 credits.

**Requisites:** ECON 709 and con reg in 710**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2009**ECON 899 – RECENT ADVANCES IN ECONOMICS**

1-3 credits.

Selections from all fields of economic research. Content changes each semester. May be repeated.

**Requisites:** ECON 711, 712, 713, 714 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ECON 901 – WORKSHOP IN MATHEMATICAL ECONOMIC THEORY**

1-7 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ECON 902 – WORKSHOP IN ECONOMIC THEORY**

1-7 credits.

Critical discussion of topics in the field of economic theory.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ECON 903 – WORKSHOP ON INDUSTRIAL ORGANIZATION**

1-7 credits.

Current research on the operation of markets in which individuals and firms act with imperfect information, are limited in their responses, may purchase heterogeneous commodities or factor services, and are concerned with conflicting goals.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**ECON 904 – WORKSHOP ON INDUSTRIAL ORGANIZATION**

1-7 credits.

Continuation of 903

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ECON 913 – WORKSHOP IN ECONOMETRICS**

1-7 credits.

Current research in econometric model building, estimation and inference in econometrics

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ECON 914 – WORKSHOP IN ECONOMETRICS**

1-7 credits.

Continuation of 913

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ECON/ANTHRO/C&E SOC/SOC 925 – SEMINAR: SOCIO-ECONOMIC CHANGE IN UNDERDEVELOPED AREAS**

2-3 credits.

Social and economic factors relating to stability, growth, and change in the non-Western areas of the contemporary world.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ECON 955 – WORKSHOP IN LABOR ECONOMICS**

1-7 credits.

Analysis of current research in wage determination and the functioning of labor markets.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ECON 956 – WORKSHOP IN LABOR ECONOMICS**

1-7 credits.

Continuation of 955.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ECON/LAW 961 – SELECTED PROBLEMS IN TRADE REGULATION-SEMINAR**

2-3 credits.

Topics reflect interests of instructor and students.

**Requisites:** ECON 761**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ECON 965 – WORKSHOP ON QUANTITATIVE MACRO-ECONOMIC ANALYSIS**

1-7 credits.

Current research on macroeconomic models, monetary theory and policy, the theory of portfolio selection, and the allocative and distributive performance of capital markets.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ECON 966 – WORKSHOP ON QUANTITATIVE MACRO-ECONOMIC ANALYSIS**

1-7 credits.

Continuation of 965

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ECON 968 – WORKSHOP ON PUBLIC ECONOMICS**

1-7 credits.

Individual research and group discussion of public expenditure programs with attention to investment in human capital, education, training, health information, and welfare programs. Reports on research in progress by students, staff, visiting scholars.

**Requisites:** Cons inst or ECON 448**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ECON 969 – WORKSHOP ON PUBLIC ECONOMICS**

1-7 credits.

Continuation of 968

**Requisites:** Cons inst or ECON 448**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017

**ECON 977 – WORKSHOP IN INTERNATIONAL ECONOMICS**

1-7 credits.

Current research in international trade; a wide range of topics in theory, quantitative analysis, statistics, and policy. For graduate students in their second or later years when working on theses.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ECON 978 – WORKSHOP IN INTERNATIONAL ECONOMICS**

1-7 credits.

Continuation of 977

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ECON/AFRICAN/ANTHRO/GEOG/HISTORY/POLI SCI 983 – INTERDEPARTMENTAL SEMINAR-AFRICAN STUDIES**

3 credits.

Interdisciplinary inquiry in African society and culture.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ECON 990 – THESIS**

2-9 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ECON 999 – INDEPENDENT WORK**

2-9 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**EDUCATION POLICY STUDIES (ED POL)****ED POL/HISTORY 107 – THE HISTORY OF THE UNIVERSITY IN THE WEST**

3-4 credits.

The history of the university in the Western world from its beginnings in the 10th century to the present. Concentrates on universities, students, and professors in Italy, France, England, Germany, and the United States.

**Requisites:** Open to All Undergrads**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 1989**ED POL 140 – INTRODUCTION TO EDUCATION**

3 credits.

An introduction to fundamental educational questions, concepts, perspectives and ideas, designed to enable students to more thoughtfully examine and assess proposed and existing educational policies and practices.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Summer 2017**ED POL 145 – INTRODUCTION TO EDUCATION POLICY**

3 credits.

Examines education policy debates, policy processes, and school governance with attention to the multiple and sometimes conflicting goals that animate education debates; discourses and representations of schools, teachers and students that shape policy and politics; research on education and education policy outcomes and implementation; and key lenses and conceptual tools that can help us understand education policy. Course materials include original policy texts, empirical and conceptual research, and film. While the focus is on K-12 education in the United States, students will have the opportunity to consider early childhood education and higher education as well education in historical and global contexts.

**Requisites:** None**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**ED POL 150 – EDUCATION AND PUBLIC POLICY**

3 credits.

Educational controversies in social contexts. An examination of fundamental dilemmas concerning the nature and purpose of educational systems in the U.S.

**Requisites:** Open to All Undergrads**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**ED POL 200 – RACE, ETHNICITY, AND INEQUALITY IN AMERICAN EDUCATION**

3 credits.

Theories and research concerning the reasons for racial and ethnic differences in educational performance; the significance of contemporary and historical debates over educational inequality; policies and practices to reduce inequality in education.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ED POL 210 – YOUTH, EDUCATION, AND SOCIETY**

3 credits.

The purpose of this course is to explore the study of youth through theoretical, historical, social, and cultural perspectives. This class will interrogate the concept of "youth" as a socially constructed category and examine how "youth" have been positioned within educational, political, economic, and social contexts. Themes explored include: conceptions of youth as a social category, education and schooling, race, gender, sexuality, politics and activism, community-based learning, criminal justice, media and popular culture. By drawing on a variety of historical and contemporary "texts" and current events we will study the lived realities of youth who are situated within diverse racial, cultural, gendered, and classed contexts. Throughout the course, students will be able to reflect on their own experiences as 'youth', their relationship to education and other social institutions - and how it informs their understanding of society, educational theory and practice.

**Requisites:** None**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**ED POL 220 – HUMAN RIGHTS AND EDUCATION**

3 credits.

Explores key questions related to global education and human rights, from the abstract to the practical, and the individual to the global levels. Using examples from around the world, we explore fundamental questions related the field of human rights and education together, such as: can the global human rights framework improve current educational, national, social, and economic inequities? Do schools have the responsibility to teach or to practice human rights education? And, can one global education and human rights model best meet the needs of our diverse global population?

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**ED POL 300 – SCHOOL AND SOCIETY**

3 credits.

Contemporary issues and trends in public schooling. Topics include: cultural differences; achieving equality through schooling; schools as social institutions; the rights of students and teachers; and the nature and organization of the teaching profession.

**Requisites:** Sophomore standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ED POL/INTL ST 335 – GLOBALIZATION AND EDUCATION**

3 credits.

Introduces students to the origins, development, and debates in the field of globalization and education (GE); explores educational experiences in settings around the world; and examines how GE studies and approaches can inform learning, teaching, and research practices.

**Requisites:** Open to Fr**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ED POL 340 – COMPARATIVE EDUCATION**

3 credits.

Examines the socio-cultural, political and economic forces that shape education around the world, including in the U.S. Throughout the semester, we explore a series of essential questions about the means and ends of education. Topics include: the purposes of schooling in different locations; the role of schooling in producing inequality or supporting social change, particularly in relation to class, race, gender, migration, language, and abilities; global educational reform; global educational assessments; curriculum and pedagogy; and teacher education.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ED POL 399 – INDEPENDENT READING**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ED POL/HISTORY 412 – HISTORY OF AMERICAN EDUCATION**

3 credits.

This course examines the history of education in America from the colonial period to the present, including the rise of common (public) schools; the education of populations differing by race, ethnicity, gender, language, religion, and social class; the development of school curricula; the politics of desegregation, bilingual education, and special education; and the evolving federal role in American education.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ED POL 450 – RETHINKING "AFTER-SCHOOL" EDUCATION**

3 credits.

This course will provide students with the opportunity to engage with and discuss historical, ideological, and contemporary issues within community-based after school programs at large and within the Madison context. Students will also examine the social and political context of after school programs to better understand the ways in which they have the potential to meet important needs of youth and communities. Rethinking After School Education is a community-based learning course intended to provide students with a theoretical understanding of community-based educational spaces serving youth, as well as an applied and practical approach to working with and being of service to community-based programs.

**Requisites:** Junior standing or instructor consent**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2015**ED POL 460 – IMMIGRATION, EDUCATION, AND EQUITY**

3 credits.

This course examines policy issues surrounding the education of children from immigrant families in K-16 educational settings in the U.S.

**Requisites:** Undergraduate career students only (excludes Grad, Pharm, Law, Med, Vet Med, Guest, Special careers)**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ED POL/HISTORY 478 – COMPARATIVE HISTORY OF CHILDHOOD AND ADOLESCENCE**

3 credits.

Growth of modern childhood and adolescent sub-cultures, class differences, literary and pictorial representations, legal and demographic developments, and the growth of educational theories and institutions.

**Requisites:** Junior standing**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**ED POL 500 – TOPICS ON SOCIAL ISSUES AND EDUCATION**

3 credits.

Contemporary social issues or problems and their significance for educational purposes and practices.

**Requisites:** Junior standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**ED POL 505 – ISSUES IN URBAN EDUCATION**

3 credits.

Urban education and its relationship to developing political, social, and economic factors.

**Requisites:** Junior standing**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ED POL 510 – URBAN SCHOOL POLICY**

3 credits.

This course examines urban school problems, politics, and policies in the United States. Among the issues we will consider are: the framing of K-12 urban schools; the social, economic and political factors shaping urban schools and school policy; frameworks for explaining urban school policy; goals for school reform; and contemporary policy proposals for urban school systems. The focus is on system-level educational problems, politics, and policies, though we will give some attention to schools and classrooms.

**Requisites:** Junior standing or consent of instructor**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015

**ED POL/CURRIC/RELIG ST 516 – RELIGION AND PUBLIC EDUCATION**  
3 credits.

Examines theories and practices related to the role of religion in public schooling and its accompanying tensions: political and philosophical, practical and personal.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ED POL 518 – INTRODUCTION TO DEBATES IN HIGHER EDUCATION POLICY**  
3 credits.

Critical examination of debates surrounding contemporary higher education policies; emphasis on those policies affecting college access and success.

**Requisites:** Jr, Sr, or Grad st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**ED POL/PHILOS 545 – PHILOSOPHICAL CONCEPTIONS OF TEACHING AND LEARNING**  
3 credits.

Examination and analysis of conceptions of teaching and learning in classical philosophical works and in contemporary literature in the philosophy of education.

**Requisites:** Junior standing

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ED POL/PHILOS 550 – PHILOSOPHY OF MORAL EDUCATION**  
3 credits.

Critical examination of classical and contemporary conceptions of moral education.

**Requisites:** Junior standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**ED POL/GEN&WS 560 – GENDER AND EDUCATION**  
3 credits.

The impact of gender on educational performance and opportunity and the problems of integrating family and alternative lifestyle needs into educational policy and planning.

**Requisites:** Jr st and background in social sciences or cons inst

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**ED POL/AFROAMER 567 – HISTORY OF AFRICAN AMERICAN EDUCATION**  
3 credits.

An examination of the social, economic, political, and cultural issues influencing the education of Black Americans from the early nineteenth century to the 1960s.

**Requisites:** Junior standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**ED POL/ANTHRO 570 – ANTHROPOLOGY AND EDUCATION**  
3 credits.

The current and historical relation of anthropology to education with particular reference to culture contact and social change, cultural perspectives on education and educational systems, learning as cultural transmission, and application of anthropological knowledge to curriculum.

**Requisites:** Junior standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ED POL 575 – EDUCATION POLICY AND PRACTICE**

3 credits.

Examines the relationship between formal and informal policies and teachers' and administrators' practice. This will include attention to: (1) research on the teaching occupation and teachers' work, (2) policy implementation frameworks, and (3) other socio-cultural and political approaches to understanding the relationship between policy and educational practice. We will consider the multiple influences on educational practice (e.g. individual proclivities, relations between levels of government, organizational and political factors, discourses, resources, etc.) and a variety of conceptual/theoretical and methodological approaches. Teachers and administrators are viewed as implementers, appropriators, and creators of policy. Furthermore, we examine how practice shapes policy.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**ED POL 595 – LANGUAGE POLITICS, ETHNICITY, AND EDUCATION**

3 credits.

An examination of language policy and education with special reference to political and ethnic issues. Case studies derived from North America, Europe, Asia, Africa, and Latin America with emphasis on bilingual education policies in the U.S.

**Requisites:** Junior standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ED POL 600 – PROBLEMS IN EDUCATIONAL POLICY**

1-3 credits.

Policy area and faculty vary each semester.

**Requisites:** Junior standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**ED POL 618 – COMMUNITY COLLEGES: ISSUES AND RESEARCH**

3 credits.

An exploration of the American community college, with an emphasis on the critical evaluation and assessment of community college research. This course pays special attention to issues of educational opportunity and inequality.

**Requisites:** Jr st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2009**ED POL/HISTORY 622 – HISTORY OF RADICAL AND EXPERIMENTAL EDUCATION IN THE US AND UK**

3 credits.

Examines the comparative history of radical and experimental education in the United States and United Kingdom since 1800. It focuses on the social, cultural, and intellectual history of diverse educational experiments, including experiments related to socialism, abolitionism, anarchism, and religious fundamentalism.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**ED POL/SOC 648 – SOCIOLOGY OF EDUCATION**

3 credits.

Educational institutions as social systems; role relationships, community contexts, relevant values and ideals, stratification, mobility, and recruitment to varied educational organizations, comparative educational systems.

**Requisites:** Intro Soc course (Soc/CE SOC/C&E SOC 140, SOC 181, Soc/CE SOC/C&E SOC 210, or Soc/CE SOC/C&E SOC 211) and Soc/CE SOC/C&E SOC 360, or declared in any School of Education program**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ED POL/HISTORY 665 – HISTORY OF THE FEDERAL ROLE IN AMERICAN EDUCATION**

3 credits.

This course examines the history of federal aid to education, emphasizing the post-World War II period. It addresses such topics as desegregation; bilingual, special, and compensatory education; policy implementation and evaluation; and the connections between executive, legislative, and judicial actions.

**Requisites:** Jr st**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013

**ED POL 675 – INTRODUCTION TO COMPARATIVE AND INTERNATIONAL EDUCATION**

3 credits.

Introduction to comparative and international education theories, policies, topics, and methods. Includes case studies of current policy issues, which might include decentralization and governance, HIV/AIDS, neoliberalism, language, access and quality, testing and accountability, or educational borrowing and transfers.

**Requisites:** Jr st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ED POL/CURRIC 677 – EDUCATION, HEALTH AND SEXUALITY: GLOBAL PERSPECTIVE AND POLICIES**

3 credits.

Employs a lifecycle approach to examine the issues at the intersection of education and health that people face throughout the world, but especially in poor countries. Particular attention is placed on sexuality education, reproductive health, and infectious disease epidemics.

**Requisites:** None**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**ED POL 699 – INDEPENDENT READING**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ED POL 701 – INTRODUCTION TO EDUCATIONAL POLICY STUDIES**

3 credits.

An introduction to diverse scholarly perspectives in educational policy studies.

**Requisites:** Grad st in EPS**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ED POL/AFROAMER/HISTORY 712 – EDUCATION AND THE CIVIL RIGHTS MOVEMENT**

3 credits.

Explores the historical relationship between education and the African American freedom struggle from the early twentieth century to the present. Topics include school segregation, desegregation, and resegregation; high school and college student activism; Black Power; civil rights protest strategies and tactics, and the role of the federal government.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**ED POL/HISTORY 713 – HISTORY OF HIGHER EDUCATION IN EUROPE AND AMERICA**

3 credits.

Development of colleges, universities, and higher learning in Europe and America.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ED POL/COUN PSY/CURRIC/ED PSYCH/ELPA/RP & SE 719 – INTRODUCTION TO QUALITATIVE RESEARCH**

3 credits.

Provides an overview of qualitative inquiry, examining assumptions, standards, and methods for generating and communicating interpretations. Methodological and theoretical works illustrate case study, ethnography, narrative, and action research. This course does not include a field method component.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ED POL 721 – GLOBAL SERVICE LEARNING AND REFLECTION**

3 credits.

In this class, we will learn skills and techniques for thinking critically about what it means to be involved in global service and to be an agent of social change. This community-based learning course is designed to address three aspects of community-based learning: personal growth, civic learning, and a critical reflection on what it means to work in international development education. This class is divided into two concurrent activity streams: community-based learning experiences and classroom reflection.

**Requisites:** Graduate standing or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No



**ED POL 723 – EDUCATION FOR GLOBAL CHANGE**

3 credits.

How do people conceptualize and utilize education to (attempt to) create individual, familial, community, institutional, national, and global change? The class aims to push our collective understanding about the diverse ways that people have conceptualized change, its goals, and the mechanisms through which to produce change around the world. We will explore a diverse range of educational approaches (including formal, informal, non-formal, and "traditional" educational models) to transforming the world. It draws on a range of disciplinary and sectoral approaches, including education, public health, and public policy; and a broad range of change models, including individual and peer behavior change, social marketing, and social movements.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**ED POL 724 – POVERTY AND EDUCATION: TRANSNATIONAL PERSPECTIVES ON POLICY AND PRACTICE**

3 credits.

This course addresses current debates about the nature of poverty, how it might be ameliorated, how poverty is related to other inequities and unequal relations of power, and how theories of international development might help us analyze these changing relations around the world. These questions will be examined from a theoretical, historical, and practical perspective by providing an introduction to historical and contemporary debates on poverty, with a specific focus on the politics, practices, and institutions of education. Education is often understood as a way to end poverty. What are the underlying assumptions behind this idea? What are the contemporary educational interventions designed to end poverty? What are the dilemmas, contradictions, and limitations related to these interventions? In particular, if education is supposed to end poverty, how do we understand the stratifying outcomes of educational policies, practices, and institutions in the U.S. and globally?

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**ED POL 725 – PARTICIPATORY ACTION RESEARCH AND PROGRAMMING**

3 credits.

In this class, we will learn to critically analyze and utilize a toolkit of participatory information-gathering methods designed to ensure community participation and ownership in global development and change efforts. The class is divided into three sections. In the first section, we critically review the themes of participation, action, research, and programming, and we begin a semester long discussion about research positionality and reflexivity. In the second section of the class, we engage in a hands-on exploration of the four key stages of PAR/PARP: identification of the problem and of stakeholders, data collection, data analysis, and research-based action. In the third section, we explore the literature on PAR/PARP best practices when working with marginalized groups and/in communities.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**ED POL 740 – CLASSICS IN EDUCATION**

3 credits.

Reading and discussion.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2011**ED POL 745 – POLITICAL ECONOMY AND EDUCATION**

3 credits.

This course seeks to provide an introduction to political economy in the field of education from a theoretical, historical, and comparative perspective.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**ED POL 750 – AFRICAN EDUCATION: PAST, PRESENT AND FUTURE**

3 credits.

Survey of indigenous and introduced forms of African education, formal and informal, in comparative format. The impact of Islam and Christianity on traditional educational styles. The struggle for modernity and cultural autonomy within the context of imperialism and international rivalries. Problems of nation-building, popular participation, and human resource development; educational planning and international cooperation.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**ED POL/C&E SOC/SOC 755 – METHODS OF QUALITATIVE RESEARCH**

3 credits.

Introduces qualitative, or ethnographic, research methods, emphasizing those suitable for educational and other organizational settings.

Considers strengths and limitations of qualitative approaches in relation to varied research problems. Explores methodological procedures from entry into the field through writing.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ED POL 760 – EDUCATION IN DEVELOPING SOCIETIES**

3 credits.

Selected systems of education with particular reference to the consequences of educational transfer or borrowing, and to education, nation building, and modernization.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016



**ED POL/ELPA/PUB AFFR 765 – ISSUES IN EDUCATIONAL POLICY ANALYSIS**

3 credits.

Theory, research, and practical experience in educational policy analysis, including the social construction of policy problems in education; the design, implementation, and evaluation of policy responses; and the practical and ethical dilemmas of the policy analyst.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ED POL 780 – SPECIAL TOPICS IN EDUCATIONAL POLICY STUDIES**

3 credits.

Topics vary each semester. See timetable for current topic.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ED POL/COUN PSY/CURRIC/ED PSYCH/ELPA/RP & SE 788 – QUALITATIVE RESEARCH METHODS IN EDUCATION: FIELD METHODS I**

3 credits.

Introductory field methods experience in qualitative research. Students will learn to define good research questions, determine which methods of data collection and analysis are useful for addressing those questions, engage in these methods, reflect on their utility in education research.

**Requisites:** CURRIC/ED POL/RP SE/COUN PSY/ELPA/ED PSYCH/COUN PSY/CURRIC/ED POL/ELPA/RP & SE 719**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ED POL/COUN PSY/CURRIC/ED PSYCH/ELPA/RP & SE 789 – QUALITATIVE RESEARCH METHODS IN EDUCATION: FIELD METHODS II**

3 credits.

Focus on data analysis and translation of finds and implications. Students will gain theoretical and practical knowledge and skills regarding coding and analysis techniques, use of qualitative analytic tools, strategies for sharing findings with audiences beyond research team.

**Requisites:** Students must have taken Curric/Ed Pol/RPSE/Coun Psych/ELPA/Ed Psych 788.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ED POL/ELPA/PUB AFFR 795 – ECONOMICS OF EDUCATION**

3 credits.

Shows how basic economic concepts are applied to the study of education policy and what economic research has concluded about the efficiency of various types of education systems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2011**ED POL/GEN&WS/PUB AFFR 805 – GENDER ISSUES IN INTERNATIONAL EDUCATIONAL POLICY**

3 credits.

Exploration and analysis of recent debates related to gender issues in international educational policy, including the intersection of education and demographic processes, the play of history and culture, and the social construction of gender.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2013**ED POL/ELPA/PUB AFFR 830 – SCHOOL FINANCE AND RESOURCE ALLOCATION**

3 credits.

Contemporary bases for collecting and distributing local, state, and federal funds for elementary and secondary education; problems and issues in financial support of education; current, alternative and more effective uses of educational resources.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**ED POL/CURRIC 855 – ISSUES IN ELEMENTARY EDUCATION**

3 credits.

Critical survey of issues and trends; their social, educational basis; implications for elementary schools; examination and analysis of major problems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**ED POL 860 – PROSEMINAR: THEORY AND METHOD IN COMPARATIVE EDUCATION**

3 credits.

Critical analysis of theories, methods, and intellectual perspectives that have been employed in comparative studies of education.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2011

**ED POL 870 – THEORIES OF SOCIAL AND EDUCATIONAL CHANGE**

3 credits.

Analysis of several social theories emphasizing the explanation of social change, the role of education in the change process, and the implications for educational policy in contemporary society.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ED POL/ELPA 872 – EDUCATIONAL POLICY RESEARCH DESIGN AND IMPLEMENTATION**

3 credits.

A policy research methods course which explores theories and practices relating to the development and implementation of educational policy with attention to matching appropriate policy research designs to policy goals and organizational contexts.

**Requisites:** ELPA 870 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2011**ED POL 890 – MARKETIZATION AND EDUCATION POLICY**

3 credits.

This course examines the origins, trends and issues in educational markets in education and what research within and outside of education has concluded about the effects of existing varieties of marketization in education and short and long term effects.

**Requisites:** Open to Grad stdts**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**ED POL/HISTORY 903 – HISTORY OF EDUCATION OF MULTICULTURAL AMERICA**

3 credits.

Selected topics, issues and themes concerning the history of education of various groups of people of color in the United States, as well as selected issues, topics and themes focusing on immigration and ethnicity.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ED POL/HISTORY 906 – PROSEMINAR ON THE HISTORY OF EDUCATION**

1-3 credits.

Reading in European or American educational history.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**ED POL/HISTORY 907 – SEMINAR-HISTORY OF EDUCATION**

1-3 credits.

Studies in European and American educational history.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**ED POL/SOC 908 – SEMINAR-SOCIOLOGY OF EDUCATION**

3 credits.

Selected topics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ED POL 911 – SEMINAR IN URBAN EDUCATION**

2-3 credits.

Historical and contemporary urban education. Emphasis: preparation of graduate students to conduct research in problems of minority groups, and family influences on children. Open to graduate students in other disciplines and specialties which relate to the schools' program in urban centers.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**ED POL/SOC 955 – SEMINAR-QUALITATIVE METHODOLOGY**

3 credits.

An intensive, practice-oriented exploration of one qualitative research method such as participant-observation, interviewing, narrative analysis, oral history or ethnography. Treatment of the method includes: logics of inquiry, analysis of data obtained through the method, and uses of the method.

**Requisites:** Grad st; soc, educ, or related soc sci background cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ED POL 962 – SEMINAR IN CROSS NATIONAL STUDIES OF EDUCATIONAL PROBLEMS**

3 credits.

Topics vary. Examples: education and the formation of elites; education and socio-economic development; the social functions of examinations; comparative studies in church-state-school relationships; the status of teachers; American overseas programs in educational modernization.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016

**ED POL/CURRIC 963 – SEMINAR-EDUCATIONAL PLANNING & CURRIC CHANGE-DEVELOPING COUNTRIES**

3 credits.

Analyses and critiques of educational plans related to the social, political, economic, and educational contexts of the target countries. Supervised practice in planning curricular change and educational reforms for particular countries in the light of realistic requirements and constraints.

**Requisites:** Grad st Curric/Ed Pol 640 or Ed Pol 340 or Ed Admin 875 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ED POL/ANTHRO 970 – SEMINAR IN ANTHROPOLOGY AND EDUCATION**

3 credits.

Anthropological theory, methodology, and field techniques with specific reference to school ethnography and cross-cultural studies of socialization and education. Topics vary.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ED POL 990 – RESEARCH OR THESIS**

1-12 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ED POL 999 – INDEPENDENT READING**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## EDUCATIONAL LEADERSHIP AND POLICY ANALYSIS (ELPA)

**ELPA/COUN PSY 350 – PEER LEADERSHIP AND MENTORSHIP WITH TRANSITIONING STUDENTS**

1 credit.

Examines student development in the first college year and strategies upper class students can utilize to be effective leaders and mentors of new students. Course textbook provides foundation for discussion, writing, and experimental assignments.

**Requisites:** Open to sophomores and above

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ELPA 502 – WORKSHOP IN EDUCATIONAL LEADERSHIP AND POLICY ANALYSIS**

1-3 credits.

Practical problems derived from student interests and needs; not applicable to the doctoral program; may be repeated.

**Requisites:** Jr st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ELPA/CURRIC/KINES 541 – ORGANIZATION AND ADMINISTRATION OF SCHOOL HEALTH PROGRAMS**

3 credits.

Theory, philosophy, patterns, and responsibilities.

**Requisites:** CURRIC/KINES 501; admission to certificate program in elementary or secondary education or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ELPA 600 – COOPERATIVE PROGRAM OFF-CAMPUS TERM**

0 credits.

Course for participants in M.S. cooperative program to maintain UW-Madison status during terms when taking courses from partner institution. S. cooperative program

**Requisites:** Admission to M.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ELPA 640 – LEGAL RIGHTS AND RESPONSIBILITIES FOR TEACHERS**

1-3 credits.

This course will examine the legal issues confronting the classroom teacher on a daily basis. Students will learn how law impacts both curriculum development and curricular delivery. An emphasis will be placed on understanding legal analysis in order to empower teachers to better balance the multiple interests confronting them. Students will also learn how an understanding of law can further the development of a democratic classroom. Specific topics to be examined include: curricular control, teachers' academic freedom, religion in the curriculum, equity in programming, special education, student records, student discipline, teacher contracts, teacher discipline, and negligence.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**ELPA/INTER-HE 660 – FOUNDATIONS OF EDUCATION FOR WORK**

2-3 credits.

Analysis of perspectives and issues associated with the development of work-focused education policies and practice.

**Requisites:** Senior standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**ELPA/INTER-HE 661 – ORGANIZATION AND OPERATION OF EDUCATION FOR WORK PROGRAMS**

3 credits.

Procedures, policies and research associated with various systems of work-related education. This course is intended for students who have teaching experience.

**Requisites:** Senior standing**Repeatable for Credit:** No**Last Taught:** Spring 2014**ELPA/COUN PSY 665 – CAREER DEVELOPMENT THROUGHOUT THE LIFE SPAN**

3 credits.

For educators and students preparing for teaching, counseling, and administrative positions. Relationships among education, work and life style as well as factors influencing individual career development; rationale for career education and application of Wisconsin and other state models; strategies for development and evaluation of career education/ career guidance programs and activities.

**Requisites:** Junior standing**Repeatable for Credit:** No**Last Taught:** Fall 2010**ELPA 700 – FIELD EXPERIENCE IN EDUCATIONAL LEADERSHIP**

3 credits.

Supervised field experience: elementary, secondary, vocational, technical, higher, and/or special education at local, state, or national level.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ELPA 701 – INTRODUCTION TO HIGHER AND POST-SECONDARY EDUCATION**

3 credits.

Examines the history and philosophy of higher and postsecondary education; the major participants; curriculum; governance and leadership; relations with state and federal government; and current issues.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA 702 – INTRODUCTION TO EDUCATIONAL LEADERSHIP**

3 credits.

Integration of research, theory, and standards of practice for effective leadership in contemporary educational organizations.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**ELPA 703 – EVALUATING AND SUPPORTING QUALITY CLASSROOM TEACHING**

3 credits.

Enables school leaders to evaluate teaching practice and to recognize and support quality classroom teaching in K-12 classrooms. Students will apply established evaluation frameworks to video cases of classroom practice. Topics will include a review of supervision and evaluation theories, basics of video production, and the link between evaluation practices and professional development.

**Requisites:** Grad st, ELPA 702 or con reg**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**ELPA 710 – INTRODUCTION TO INTERCOLLEGIATE ATHLETICS ADMINISTRATION**

3 credits.

Examines the administration of intercollegiate athletics in higher education institutions with particular emphasis on providing practical and theoretical approaches. Concepts will be addressed by the practical experiences of guest lecturers and through content-specific knowledge about the intercollegiate athletics research-based literature.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA 715 – GOVERNANCE AND ADMINISTRATION OF COLLEGES AND UNIVERSITIES**

3 credits.

Functions organization, and administrative practices of colleges and universities; role of governing boards, administrators, faculty members, and students in policy making.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA/COUN PSY/CURRIC/ED POL/ED PSYCH/RP & SE 719 – INTRODUCTION TO QUALITATIVE RESEARCH**

3 credits.

Provides an overview of qualitative inquiry, examining assumptions, standards, and methods for generating and communicating interpretations. Methodological and theoretical works illustrate case study, ethnography, narrative, and action research. This course does not include a field method component.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ELPA 725 – RESEARCH METHODS AND PROCEDURES IN EDUCATIONAL ADMINISTRATION**

3 credits.

Introduction to the research process. Role of theory and hypothesis testing in research. Introduction to research problems, questions, hypotheses, variables, constructs, definitions, measurement, research and experimental designs, sampling, descriptive statistics, proposal writing, types of research and statistical computing. Critical analysis of published research.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA 726 – DATA-BASED DECISION-MAKING FOR EDUCATIONAL LEADERSHIP**

3 credits.

Prepares educational leaders to engage in data-driven decision making from a system-wide perspective. A second objective is to provide students with basic data analysis skills they can use in their graduate studies.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**ELPA/INTER-HE 730 – PROGRAM DEVELOPMENT IN CONTINUING EDUCATION**

3 credits.

Basic concepts related to effective program development. Focus on the concepts relevant to programming with adults: (1) philosophical basis for change through adult education programs, (2) programming processes, (3) community and clientele analysis, (4) program involvement, (5) program design.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2010**ELPA 735 – LEADERSHIP FOR EQUITY AND DIVERSITY**

3 credits.

Coordinating and effective utilization of school-based special services in the context of student diversity with attention to values, theory, and research underlying curriculum, instruction and policy, in terms of social class, gender, sexual orientation, disability, and race.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ELPA 736 – ADMINISTRATION OF STUDENT SERVICES IN HIGHER EDUCATION**

3 credits.

Organization and administration of student services in higher education including philosophy, current issues, student development, program planning, financial aid, auxiliary services, housing, counseling, advising, social and health services, student organizations, legal aspects, and special populations.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA/INTER-HE 742 – FACILITATING LEARNING FOR ADULTS**

3 credits.

Analysis of concepts and procedures for helping adults learn. Emphasis on the teaching-learning transactions that encourage and assist adults in their learning activities.

**Requisites:** CURRIC/ELPA/CURRIC 746**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2013**ELPA/CURRIC 746 – THE ADULT LEARNER: IMPLICATIONS FOR CURRICULUM AND INSTRUCTION**

3 credits.

Analysis of the principles and instructional models applicable to the instruction of adults. Attention to the integration of research on learning and teaching in informal and formal educational settings.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**ELPA/CURRIC 748 – PROSEMINAR: ISSUES & PROBLEMS IN TEACHING-LEARNING IN ADULT EDUCATION**

3 credits.

A planned, systematic analysis of basic issues; instructional group strategies, instructional modes, independent learning, etc.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2013



**ELPA/ED POL/PUB AFFR 765 – ISSUES IN EDUCATIONAL POLICY ANALYSIS**

3 credits.

Theory, research, and practical experience in educational policy analysis, including the social construction of policy problems in education; the design, implementation, and evaluation of policy responses; and the practical and ethical dilemmas of the policy analyst.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA/INTER-HE 770 – SCHOOL-COMMUNITY ENGAGEMENT**

3 credits.

Critical examination of school-community engagement and collaboration. Examines theory and practice of mutually beneficial collaboration in diverse education settings, including leadership issues in collaborative settings, and facilitators and inhibitors to effective collaboration.

**Requisites:** ELPA 702**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ELPA 777 – HIGHER AND POST-SECONDARY EDUCATION CAPSTONE SEMINAR**

3 credits.

This capstone seminar is designed to provide students with an opportunity to use concepts and theories learned in previous coursework to analyze professional issues facing higher education administrators. The goal of the course is to assist students with career transitions and provide a culminating experience for the master's program.

**Requisites:** ELPA 701 and consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ELPA/ED PSYCH 780 – TEACHER LEADERSHIP AND LEARNING COMMUNITIES**

3-4 credits.

Focuses on knowledge and skills teachers need to be leaders in their schools in facilitating the development of strong learning communities that include students, teachers, families, administrators, and other educators. Main objectives are to help students understand key concepts, theories, and models used in building and sustaining effective learning communities; develop skills in creating practices that contribute to effective teacher leadership; and identify and strengthen skills needed to lead schools to build learning communities that promote student learning.

**Requisites:** Enrollment in the Master of Science for Professional Educators program or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA 785 – STAFF PERSONNEL SYSTEMS IN EDUCATION**

3 credits.

Personnel systems and collective bargaining processes for professional and nonprofessional staff in education including elementary, secondary, higher and post-secondary education.

**Requisites:** ELPA 702 703 or cons inst for ELPA majors; Grad st for other fields**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**ELPA/COUN PSY/CURRIC/ED POL/ED PSYCH/RP & SE 788 – QUALITATIVE RESEARCH METHODS IN EDUCATION: FIELD METHODS I**

3 credits.

Introductory field methods experience in qualitative research. Students will learn to define good research questions, determine which methods of data collection and analysis are useful for addressing those questions, engage in these methods, reflect on their utility in education research.

**Requisites:** CURRIC/ED POL/RP SE/COUN PSY/ELPA/ED PSYCH/COUN PSY/CURRIC/ED POL/ELPA/RP & SE 719**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA/COUN PSY/CURRIC/ED POL/ED PSYCH/RP & SE 789 – QUALITATIVE RESEARCH METHODS IN EDUCATION: FIELD METHODS II**

3 credits.

Focus on data analysis and translation of finds and implications. Students will gain theoretical and practical knowledge and skills regarding coding and analysis techniques, use of qualitative analytic tools, strategies for sharing findings with audiences beyond research team.

**Requisites:** Students must have taken Curric/Ed Pol/RPSE/Coun Psych/ELPA/Ed Psych 788.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA/ED POL/PUB AFFR 795 – ECONOMICS OF EDUCATION**

3 credits.

Shows how basic economic concepts are applied to the study of education policy and what economic research has concluded about the efficiency of various types of education systems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2011



**ELPA 810 – DOCTORAL INQUIRY IN EDUCATIONAL LEADERSHIP AND POLICY ANALYSIS**

3 credits.

Introduction to inquiry in the field of educational leadership and policy analysis for first semester doctoral students. Provides an introduction to research through engagement with ideas, including identifying and crystallizing meaningful problems, fundamentals of research design, and key challenges in conducting disciplined inquiry.

**Requisites:** Admission to ELPA Doctoral program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA/INTER-HE 812 – LEADERSHIP AND COORDINATION OF CONTINUING AND TECHNICAL EDUCATION**

3 credits.

Theory, research, concepts, and processes of leadership and program coordination integral to various continuing and technical education programs.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2009**ELPA 815 – PROBLEMS IN COLLEGE AND UNIVERSITY ADMINISTRATION**

3 credits.

Theory and research applied to the study of policy issues and problems in college and university administration.

**Requisites:** ELPA 715**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**ELPA 817 – REFLECTIVE PRACTICE IN HIGHER, POSTSECONDARY AND CONTINUING EDUCATION**

3 credits.

Current educational philosophies. Each student develops an adult educational philosophy.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2011**ELPA/ED PSYCH 822 – INTRODUCTION TO QUANTITATIVE INQUIRY IN EDUCATION**

3 credits.

Prepares doctoral students to use the concepts and methods of quantitative social science research to conduct research on education issues. Topics include hypothesis testing, statistical inference, point estimates, graphic and numerical data displays, correlation and regression.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA 824 – FIELD RESEARCH DESIGNS & METHODOLOGIES IN EDUCATIONAL ADMINISTRATION**

3 credits.

This introduction to qualitative inquiry focuses on research design, the major qualitative methods and techniques used in field research, data analysis, communicating field research, ethical challenges, and trustworthiness in conducting qualitative research.

**Requisites:** ELPA 725 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**ELPA 825 – ADVANCED RESEARCH METHODS IN EDUCATIONAL ADMINISTRATION**

3 credits.

Research designs for problems in educational administration including role of theory and hypothesis testing; variable definition and measurement; correlational, survey, experimental and non-experimental, factorial and single-subject designs.

**Requisites:** Ed Psych 761 or STAT 301 or SOC/C&E SOC 361 or ELPA 824 or Ed Pol 720; or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA/INTER-HE 826 – EVALUATION FOR ADMINISTRATIVE DECISION MAKING IN EDUCATION**

3 credits.

Theory and methods of evaluation for administrators. Models and techniques related to educational needs assessment, program and product development, formative and summative evaluation. Use of evaluative information for administrative decision making and administration of educational evaluation projects.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2012

**ELPA/ED PSYCH 827 – SURVEYS AND OTHER QUANTITATIVE DATA COLLECTION STRATEGIES**

3 credits.

This course examines the methods and concepts of survey research methods as they are commonly used in education research. Strategies include surveys (phone, mail, electronic, in person), logs/diaries, and experience sampling instruments. Emphasis is given to self-administered surveys, including periodic surveys, since these strategies are the most common in education research.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**ELPA/ED POL/PUB AFFR 830 – SCHOOL FINANCE AND RESOURCE ALLOCATION**

3 credits.

Contemporary bases for collecting and distributing local, state, and federal funds for elementary and secondary education; problems and issues in financial support of education; current, alternative and more effective uses of educational resources.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**ELPA 831 – FINANCING POSTSECONDARY EDUCATION**

3 credits.

Contemporary bases for collecting and distributing funds for postsecondary education provided by two-year institutions, colleges and universities; problems and issues in financing postsecondary institutions; economic aspects of expenditures for postsecondary education.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ELPA/RP & SE 835 – LEADERSHIP FOR INCLUSIVE SCHOOLING**

3 credits.

Examines historical and organizational context of special education administration at the federal, state and local levels. Includes policy implementation, constituency management, coordination, communication, and current issues.

**Requisites:** ELPA 702 735**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**ELPA 840 – PUBLIC SCHOOL LAW**

3 credits.

Legal aspects of public K-12 education. Legal structure; employee rights; employee discipline; curriculum; students' rights; student discipline, special education; torts; contracts, religion. Impact of federal and state constitutions, statutes, and court decisions on education.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA 841 – LEGAL ASPECTS OF HIGHER EDUCATION**

3 credits.

Legal structure of higher education, including historical evolution as well as current legal problems. Attempts to assess the impact of legal decisions, statutes, and regulations upon higher education and to discuss the implications of the interaction of the legal system and university governance for the practicing administrator.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ELPA 842 – LEGAL FOUNDATIONS OF SPECIAL EDUCATION AND PUPIL SERVICES**

3 credits.

Legal requirements and issues relative to special education and pupil services programs; special education, juvenile justice, programs for English language learners, programs for children who are homeless; examination of applicable federal and state statutes and case law.

**Requisites:** ELPA 840**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA 844 – TECHNOLOGY AND SCHOOL LEADERSHIP**

3 credits.

Investigates how school leaders develop and use technological tools and systems to improve student learning and effect change in schools.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**ELPA 845 – SCHOOL-LEVEL LEADERSHIP**

3 credits.

Dimensions of school-level leadership includes a focus on dimensions of the principal's leadership role, leadership tasks needed to advance equity and excellence in student learning, and distributed leadership.

**Requisites:** ELPA 702**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ELPA 846 – THE SCHOOL SUPERINTENDENCY**

3 credits.

The course focus is systematic leadership for equity in learning. Investigation of leadership and political theories, professional competencies, and the personal commitment involved in the role of the school superintendent. Covers the evolution of theoretical and practical perspectives of the school superintendency, including internship experiences.

**Requisites:** ELPA 702 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA 847 – INSTRUCTIONAL LEADERSHIP AND TEACHER CAPACITY**

3 credits.

Creating and sustaining successful teaching and learning environments for students and staff is the guiding theme of this course. It is designed to provide teachers, learning specialists, principals, and other administrators with the foundations of research, theory, and best practices of instructional leadership to enhance teachers' capacity for equity and excellence in student learning.

**Requisites:** ELPA 703**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA 848 – PROFESSIONAL DEVELOPMENT AND ORGANIZATIONAL LEARNING**

3 credits.

Examines educators' professional learning in organizations and its contributions to organizational change, learning, and renewal.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA 860 – ORGANIZATIONAL THEORY AND BEHAVIOR IN EDUCATION**

3 credits.

Theoretical constructs and empirical research relating to administering organizations in education. Emphasis on administrative behavior with special attention to planning and organizational improvement.

**Requisites:** ELPA 702 or cons inst for ELPA majors; Grad st for other fields**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2016**ELPA 863 – RACE, CLASS AND EDUCATIONAL INEQUALITY**

3 credits.

Critically examines race and class inequality in education, including the importance of race and class at multiple levels of analysis, including the classroom and school, as well as the family, neighborhood, and community.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA 870 – THE POLITICS OF EDUCATION**

3 credits.

Policy development in education as a political process; community power, state and national politics in educational decision making; role of leadership and pressure groups, particularly the educational lobbies, in the shaping of educational policy at local, state, and national levels.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA/ED POL 872 – EDUCATIONAL POLICY RESEARCH DESIGN AND IMPLEMENTATION**

3 credits.

A policy research methods course which explores theories and practices relating to the development and implementation of educational policy with attention to matching appropriate policy research designs to policy goals and organizational contexts.

**Requisites:** ELPA 870 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2011**ELPA/URB R PL 875 – THEORY AND PRACTICE OF EDUCATIONAL PLANNING**

3 credits.

Theory, research and practice in advanced program planning and evaluation involving elementary, secondary and higher and post-secondary education. Grad st for other fields

**Requisites:** ELPA 702 or cons inst for ELPA majors.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017

**ELPA 880 – ACADEMIC PROGRAMS IN COLLEGES AND UNIVERSITIES**

3 credits.

Explores higher education curriculum including academic program philosophy and design, planning and development, program innovations, liberal education, academic majors, graduate and professional education, program review and evaluation.

**Requisites:** ELPA 715**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA 881 – IDEAS OF THE UNIVERSITY: IMAGES OF HIGHER LEARNING FOR THE 21ST CENTURY**

3 credits.

Through engaging a diverse range of voices representing multiple stakeholders, this course explores alternative images and models to guide universities in the twenty-first century.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ELPA 882 – MINORITY-SERVING INSTITUTIONS OF HIGHER EDUCATION**

3 credits.

Examines the origins, contemporary landscape, structures, and stakeholders of minority-serving institutions (MSIs) – historically black colleges and universities (HBCUs), Hispanic-serving institutions (HSIs), and tribal colleges and universities (TCUs) – including related challenges and opportunities for research and practice.

**Requisites:** Grad st ELPA 701 or equiv, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**ELPA 883 – PERSPECTIVES ON COLLEGE STUDENT IDENTITY AND DEVELOPMENT**

3 credits.

The aim of this course is to provide an introduction to identity and college student development theory that can either be applied to higher education administration practice or to research in higher education.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**ELPA 886 – INTERNATIONALIZATION OF HIGHER EDUCATION**

3 credits.

This seminar offers a close look at issues, trends, and challenges concerning internationalization in higher education in both the U.S. and foreign countries. Course content focuses on internationalizing teaching and learning, international partnerships and collaborations, international student recruitment and advising, study abroad etc.

**Requisites:** Admission to Global Higher Education Master's Program (GHE) or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA 887 – DIVERSITY AND INEQUALITY IN HIGHER EDUCATION**

3 credits.

Survey of equity issues related to higher education access, admissions, transitions, persistence, and success. This seminar course focuses on the role of inequities across categories such as race, class, sex, gender, sexual orientation, language, nationality, or religion in higher education alongside considerations as to how researchers and practitioners can better communicate with one another about diversity issues.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ELPA 888 – ASSESSMENT IN HIGHER EDUCATION**

3 credits.

The course presents an overview of the key concepts, tools, and practices of assessment in academic and student services settings. A theoretical and practical basis for choosing, designing and using assessment and evaluation tools will also be provided.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ELPA 890 – APPLIED RESEARCH IN EDUCATIONAL ADMINISTRATION**

3 credits.

Supervised research on topics in the administration of elementary and secondary education. Course is designed for students seeking the Specialist Certificate.

**Requisites:** ELPA 725 Ed Psych 760 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ELPA 900 – INTERNSHIP IN EDUCATIONAL ADMINISTRATION**

3 credits.

In administration and other leadership positions in elementary and secondary, vocational, technical, and adult, and higher educational systems or other educational agencies.

**Requisites:** Post-master st, approp advanced cr cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ELPA 910 – SEMINAR IN EDUCATIONAL LAW**

3 credits.

Interpretation and critique of legal authority impacting education. Topics may include education and religion, students' rights, teachers' rights, and federal involvement in education.

**Requisites:** ELPA 840 or 841 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2016**ELPA 915 – SEMINAR: COLLEGE AND UNIVERSITY ADMINISTRATION**

3 credits.

Research and discussion on topics in college and university administration.

**Requisites:** ELPA 715 825**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2012**ELPA 940 – SPECIAL TOPICS SEMINAR IN EDUCATIONAL LEADERSHIP**

1-3 credits.

Research on and/or discussion of selected topics in educational leadership and policy analysis.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ELPA 950 – SEMINAR-ORGANIZATIONAL THEORY AND BEHAVIOR IN EDUCATION**

3 credits.

Theory and research on organizations, leadership, and administrator behavior.

**Requisites:** ELPA 860 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2008**ELPA 960 – SEMINAR IN EDUCATIONAL FINANCE**

3 credits.

Problems of financing education; school financial management; and related research.

**Requisites:** Post-masters st ELPA 820 830 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**ELPA/ED PSYCH 964 – HIERARCHICAL LINEAR MODELING**

3 credits.

Introduction to the statistical methodology of hierarchical linear modeling, including random intercept and random slope and intercept models; models for longitudinal data; and multilevel generalized linear models.

**Requisites:** Ed Psych 760 761, or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ELPA 965 – SEMINAR IN THE POLITICS OF EDUCATION**

3 credits.

Research related to power structure, decision making, pressure groups, and professional influence in the formulation of public policy in education at the local, state, and national levels.

**Requisites:** Post-masters st or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**ELPA 970 – SEMINAR IN EDUCATIONAL PLANNING**

3 credits.

Comprehensive planning practices and procedures in selected educational settings and development of related research projects. Advanced study of topics related to the design and development of educational policies and operations, including appropriate research needs and methods.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2008**ELPA 990 – RESEARCH OR THESIS**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**ELPA 999 – INDEPENDENT READING**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**EDUCATIONAL PSYCHOLOGY (ED PSYCH)****ED PSYCH 301 – HOW PEOPLE LEARN**

3 credits.

Introduction to theories of learning in formal and informal settings, including theories related to memory, learning, and intelligence; cognitive, social, and affective aspects of learning; the influence of context on learning, including learning with psychological tools, such as language and technological resources; individual differences that may affect learning; and practical applications of learning theory.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ED PSYCH 320 – HUMAN DEVELOPMENT IN INFANCY AND CHILDHOOD**

2-3 credits.

Normative processes and individual differences in physical, mental, social and emotional development and behavior from infancy through late childhood.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ED PSYCH 321 – HUMAN DEVELOPMENT IN ADOLESCENCE**

2-3 credits.

Physiological, social, and cognitive changes which characterize the transition from childhood to adult life.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ED PSYCH 326 – MIND, BRAIN AND EDUCATION**

3 credits.

This course will provide an overview of methods and findings at the interface between education and neuroscience. Readings and lectures will present findings on brain development from birth to adolescence, brain changes in response to learning and how individual differences in brains relate to individual differences in learning. Educationally relevant domains including language acquisition and bilingualism, the brain basis of reading and mathematics and executive functions like memory, attention and emotion will be highlighted.

**Requisites:** Sophomore standing**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ED PSYCH 331 – HUMAN DEVELOPMENT FROM CHILDHOOD THROUGH ADOLESCENCE**

3 credits.

Social and psychological aspects of human development from early childhood through adolescence; implications for education.

**Requisites:** Enrl in, or Sophomore standing w/pre-certificat in, one of these teacher certificate programs: art for preschl/kindgrtn-grade 12; music for p/k-12; phy ed for p/k- 12; spec ed p/k-12, grades 1-9**Repeatable for Credit:** No**Last Taught:** Fall 2017**ED PSYCH 470 – RESEARCH EXPERIENCE IN EDUCATIONAL PSYCHOLOGY**

1-6 credits.

Research experience under the supervision of a faculty member in Educational Psychology. Students will develop an understanding of research in a topic area and will participate in team-based research. Course reading will include published research studies relevant to the selected topic, and evaluation will include presentations in group meetings or a paper based on the research conducted.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ED PSYCH 506 – CONTEMPORARY ISSUES IN EDUCATIONAL PSYCHOLOGY**

3 credits.

Influence of educational psychology upon issues and innovations in education. See Timetable for current topic.

**Requisites:** None**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**ED PSYCH 521 – ADOLESCENT DEVELOPMENT IN EDUCATIONAL CONTEXTS**

3 credits.

Normative patterns of physical, mental, social, moral, and psychological development during adolescence, with special emphasis on influences of educational settings and implications for schooling. Individual differences in adolescent development resulting from family and cultural background, personal characteristics, and historical events.

**Requisites:** Admission to secondary educ cert prog

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**ED PSYCH 533 – THINKING, FEELING, & LEARNING**

3 credits.

Covers the cognitive and emotional foundations of behavior with special reference to processes of learning and change. How does the science of thinking and feeling inform interventions such as teaching, counseling, or parenting? Topics covered include: dual-systems theories, neural and behavioral aspects of emotion and cognitive control, intuition, and expertise. We focus on the relation between unconscious, automatic processes and deliberate, effortful processes guiding behavior.

**Requisites:** Consent of Instructor

**Repeatable for Credit:** No

**ED PSYCH 540 – INTRODUCTION TO PROFESSIONAL SCHOOL PSYCHOLOGY**

2 credits.

Introduction to the professional roles and functions of school psychologists; historical development; legal and ethical issues; overview of assessment, intervention, and consultation for children and adolescents at risk for, or with, academic, behavioral, emotional, and social difficulties; applied research in school psychology.

**Requisites:** Grad st or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ED PSYCH 541 – APPLIED BEHAVIOR ANALYSIS IN CLASSROOMS**

3 credits.

Application of behavioral analysis to educational situations for both exceptional and normal children and adolescents.

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ED PSYCH 542 – THE BIOLOGICAL BASIS OF BEHAVIOR**

3 credits.

Content will focus on: neuroscience foundational concepts relevant to clinical mental health practice, neuroanatomy, neurophysiology, psychopharmacology, disease states; ontological and phylogenetic neurodevelopment. Course will also provide overview of ethical/cultural implications of these scientific advances. Ethical/Cultural/Economic Applications. Students must have a basic understanding of biology and human anatomy and physiology. This prerequisite would normally be met by two or three undergraduate level courses in biology

**Requisites:** Grad st at least 8 credits of undergraduate biology (or the equivalent).

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ED PSYCH 551 – QUANTITATIVE ETHNOGRAPHY**

3 credits.

Explores the theoretical foundations and practical use of quantitative ethnography, focusing on new insights in the field of cognitive modeling and automated coding and their use in applied fields such as anthropology, education, market research, product development, assessment, and training.

**Requisites:** Ed Psych 301, graduate standing, or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ED PSYCH 563 – DESIGN OF EDUCATIONAL GAMES AND SIMULATIONS**

3 credits.

Examines the design of learning games and simulations. Topics include intelligent tutoring systems, serious games, and epistemic games, with particular emphasis on design for 21st century learning environments and learning 21st century skills.

**Requisites:** Graduate standing or ED PSYCH 301

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**ED PSYCH 570 – FOUNDATIONS OF EDUCATIONAL MEASUREMENT**

3 credits.

Theory of mental measurement, types of scales, reliability, validity, psychometric evaluation of published tests.

**Requisites:** Any A-level Quantitative Reasoning course

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ED PSYCH 621 – ADOLESCENT DEVELOPMENT IN EDUCATIONAL CONTEXTS**

2 credits.

Overview of physical, cognitive, emotional, and social development during adolescence as these factors influence and are influenced by young people's experiences in educational institutions.

**Requisites:** Enrollment in Secondary Teacher Education Masters degree and certification program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ED PSYCH 622 – STRUCTURING SECONDARY SCHOOLS FOR ADOLESCENT DEVELOPMENT**

1 credit.

Designing instructional environments and learning activities to foster healthy adolescent development.

**Requisites:** Ed PSYCH 621 and enrollment in Secondary Teacher Education Masters degree and certification program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**ED PSYCH 699 – INDEPENDENT READING UNDERGRAD**

1-6 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ED PSYCH/CURRIC 708 – THE STUDY OF TEACHING**

3 credits.

Alternative research approaches to the study of teaching; for example, process-product, aptitude treatment interaction, ethnographic.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**ED PSYCH 709 – SEMINAR IN RESEARCH IN EDUCATIONAL PSYCHOLOGY I**

3 credits.

Areas of research in field, emphasis on logic of inquiry and development of strategies for investigating particular problems.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ED PSYCH 710 – SEMINAR IN RESEARCH IN EDUCATIONAL PSYCHOLOGY II**

3 credits.

Planning and conducting empirical research project, with assistance from faculty advisor and course faculty.

**Requisites:** Ed Psych 709

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ED PSYCH 711 – CURRENT TOPICS IN EDUCATIONAL PSYCHOLOGY**

1-3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ED PSYCH 715 – PRACTICUM FOR TEACHERS OF THE GIFTED AND TALENTED**

3 credits.

Planning and conducting learning experiences for gifted students.

**Requisites:** Ed PSYCH 501 and Grad st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2013

**ED PSYCH/COUN PSY/CURRIC/ED POL/ELPA/RP & SE 719 – INTRODUCTION TO QUALITATIVE RESEARCH**

3 credits.

Provides an overview of qualitative inquiry, examining assumptions, standards, and methods for generating and communicating interpretations. Methodological and theoretical works illustrate case study, ethnography, narrative, and action research. This course does not include a field method component.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ED PSYCH 720 – CHILD DEVELOPMENT**

3 credits.

Individual development in infancy and childhood. Individual differences in and contextual influences on physical, cognitive, social, and personality development.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ED PSYCH 721 – ADOLESCENT DEVELOPMENT**

3 credits.

Individual differences in and contextual influences on physical, cognitive, social, and personality development.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ED PSYCH 722 – ADULT DEVELOPMENT AND AGING**

3 credits.

Overview of individual development from young adulthood through middle and old age. Review of major conceptualizations of adult development and recent research regarding personality change, intellectual functioning, career and family stages, social relations, biological changes, sexuality, death and dying.

**Requisites:** Ed Psych 723 or Ed Psych/ChldFam 725 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**ED PSYCH/COUN PSY 723 – DEVELOPMENTAL PROCESSES ACROSS THE LIFE SPAN**

3 credits.

Life-span perspective on studying individual development from conception to death. Emphasis on multidisciplinary, multidirectional, and contextual approaches to physical, psychological, social, and intellectual developmental processes.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ED PSYCH/HDFS 725 – THEORY AND ISSUES IN HUMAN DEVELOPMENT**

3 credits.

This course covers both classic and contemporary theories, providing students with a firm grounding in the theoretical perspectives that have shaped and are shaping understandings of human development across the life-span. The course explores the historical roots of contemporary perspectives and examines the development of theoretical conceptualizations both within and across theoretical perspectives.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ED PSYCH/COUN PSY/HDFS 726 – ETHNIC AND RACIAL DIVERSITY IN SOCIAL DEVELOPMENT**

3 credits.

Review of empirical and theoretical research on ethnic/racial diversity in social development across childhood, adolescence and early adulthood with emphasis on implications for counseling and school psychology.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ED PSYCH 731 – LABORATORY IN DEVELOPMENTAL RESEARCH**

3 credits.

Emphasis on developing skills necessary for researchers in human development, observational techniques, experimental methods in infant and child research, design of lab equipments, research design for developmental problems.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2013

**ED PSYCH/COUN PSY/RP & SE 735 – LEGAL AND ETHICAL BASES OF COUNSELING AND PSYCHOLOGY**

3 credits.

Legal and ethical issues for psychologists, with an emphasis on the APA ethics code and Wisconsin statutes relevant to psychological research and practice.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ED PSYCH/COUN PSY/RP & SE 736 – SEMINAR IN PSYCHOLOGY OF INDIVIDUAL DIFFERENCES**

3 credits.

Graduate-level seminar in the psychology of individual differences, providing broad and general coverage of theory and research related to individual and cultural differences.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ED PSYCH/COUN PSY/RP & SE 737 – SEMINAR IN HISTORY AND SYSTEMS OF PSYCHOLOGY**

3 credits.

Graduate-level seminar in the history of psychology, providing broad and general coverage of the development of psychology as a scientific discipline. Includes coverage of philosophy of science and systems of psychological inquiry, with applications to current research in psychology.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**ED PSYCH 740 – COGNITIVE ASSESSMENT OF CHILDREN IN THE SCHOOLS**

3 credits.

Theories of intelligence and intelligence testing, construction and validation of the Binet and Wechsler tests, administration of tests, interpretation of test results and report writing, recent research in intelligence testing.

**Requisites:** Ed Psych 570 760 or PSYCH 210 370 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ED PSYCH 741 – SOCIAL, EMOTIONAL, AND BEHAVIORAL ASSESSMENT**

3 credits.

Knowledge and skills necessary to conduct comprehensive assessments of social, emotional, and behavioral difficulties in children and adolescents; theoretical foundations; assessment procedures and instruments; diagnostic and eligibility criteria; early identification and intervention.

**Requisites:** Ed PSYCH 740 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ED PSYCH 742 – ASSESSMENT AND INTERVENTION FOR ACADEMIC SKILL PROBLEMS**

3 credits.

Assessment methods and intervention strategies for children with academic skill problems in educational settings; practice in application of assessment and intervention approaches to case studies.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ED PSYCH 743 – DESIGN AND ANALYSIS OF SINGLE-CASE RESEARCH**

3 credits.

Course designed to increase the capacity of graduate students to conduct high-quality single-case intervention research, by improving the scientific credibility of both the methodology; and the visual and statistical analysis of their studies. Although designed as an initial course in single-case research design, this course will equip students with the skills and knowledge to critically analyze published intervention research and to implement quality intervention research studies.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ED PSYCH 745 – DESIGNING AND MANAGING THE LEARNING ENVIRONMENT**

3 credits.

This course provides students with knowledge and skills necessary to effectively and efficiently engage with students and manage the classroom environment. Students' ability to support the academic and social-emotional growth of children will be enhanced through knowledge gained regarding children's self-regulation, motivation, school climate, multi-tiered behavioral interventions, and schoolwide positive behavior support.

**Requisites:** Students must be enrolled in the Master of Science for Professional Educators program or have consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**ED PSYCH 752 – ENGAGING WITH EDUCATION RESEARCH**

1 credit.

This course introduces students to issues in consuming and conducting education research. The focus of the course is on research paradigms and methods frequently used in education research.

**Requisites:** Enrollment in the Master of Science for Professional Educators program or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**ED PSYCH 760 – STATISTICAL METHODS APPLIED TO EDUCATION I**

3 credits.

Introductory descriptive statistics and statistical inference; measures of central tendency and variability, confidence intervals, theory of hypothesis testing, correlation techniques.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ED PSYCH 761 – STATISTICAL METHODS APPLIED TO EDUCATION II**

3 credits.

Analysis of variance and covariance, multiple linear regression; chi-square and various nonparametric techniques.

**Requisites:** Ed Psych 760 or PSYCH 210

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ED PSYCH 762 – INTRODUCTION TO THE DESIGN OF EDUCATIONAL EXPERIMENTS**

3 credits.

Classical experimental designs and their application to educational research, factorial treatment arrangements, confounding, repeated measures design, and related topics.

**Requisites:** Ed Psych 760, 761

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ED PSYCH 763 – REGRESSION MODELS IN EDUCATION**

3 credits.

An applied introduction to regression techniques is given, covering nonparametric regression, multiple linear regression and logistic regression. All applied analyses are done in the statistical programming language R.

**Requisites:** Ed Psych 760 and 761, or equivalent introductory statistics courses (with consent of instructor)

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ED PSYCH/COMP SCI/PSYCH 770 – HUMAN-COMPUTER INTERACTION**

3 credits.

Principles of human-computer interaction (HCI); human subjects research methods and procedures, qualitative and quantitative data analysis; and semester-long research project situated in critical domains of HCI, including applications in ubiquitous, affective, assistive, social, and embodied computing.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ED PSYCH 771 – TEST CONSTRUCTION**

3 credits.

Procedures for development and analysis of educational tests and questionnaires; strategies for measurement of achievement, attitude, and interests; procedures for item analysis and assessment of reliability and validity.

**Requisites:** Ed Psych 760 and 570

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ED PSYCH 773 – FACTOR ANALYSIS, MULTIDIMENSIONAL SCALING AND CLUSTER ANALYSIS**

3 credits.

Major types of factor models, nonmetric multidimensional scaling methods and clustering procedures. Methods of data collection, mathematical algorithms, estimating the number of factors, transformation and identification of factors.

**Requisites:** Ed Psych 761

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ED PSYCH/ELPA 780 – TEACHER LEADERSHIP AND LEARNING COMMUNITIES**

3-4 credits.

Focuses on knowledge and skills teachers need to be leaders in their schools in facilitating the development of strong learning communities that include students, teachers, families, administrators, and other educators. Main objectives are to help students understand key concepts, theories, and models used in building and sustaining effective learning communities; develop skills in creating practices that contribute to effective teacher leadership; and identify and strengthen skills needed to lead schools to build learning communities that promote student learning.

**Requisites:** Enrollment in the Master of Science for Professional Educators program or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ED PSYCH/COUN PSY/CURRIC/ED POL/ELPA/RP & SE 788 – QUALITATIVE RESEARCH METHODS IN EDUCATION: FIELD METHODS I**

3 credits.

Introductory field methods experience in qualitative research. Students will learn to define good research questions, determine which methods of data collection and analysis are useful for addressing those questions, engage in these methods, reflect on their utility in education research.

**Requisites:** CURRIC/ED POL/RP SE/COUN PSY/ELPA/ED PSYCH/COUN PSY/CURRIC/ED POL/ELPA/RP & SE 719

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ED PSYCH/COUN PSY/CURRIC/ED POL/ELPA/RP & SE 789 – QUALITATIVE RESEARCH METHODS IN EDUCATION: FIELD METHODS II**  
3 credits.

Focus on data analysis and translation of finds and implications. Students will gain theoretical and practical knowledge and skills regarding coding and analysis techniques, use of qualitative analytic tools, strategies for sharing findings with audiences beyond research team.

**Requisites:** Students must have taken Curric/Ed Pol/RPSE/Coun Psych/ELPA/Ed Psych 788.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ED PSYCH 791 – MASTER OF SCIENCE FOR PROFESSIONAL EDUCATORS CAPSTONE**

1-4 credits.

The MSPE Capstone course is a class in which students complete an investigation of a policy or practice in their classroom, school, or school district. Students' capstone investigations are individualized to their interests and practice and reflect research and content knowledge gained from preceding MSPE courses.

**Requisites:** Students must be enrolled in the Master of Science for Professional Educators

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, for 3 number of completions

**Last Taught:** Fall 2017

**ED PSYCH 792 – TOOLS FOR THOUGHT**

3 credits.

Cognitive analysis of educational technologies, exploring relationships among tools, thinking, and learning. Studies of Froebel's gifts and occupations, typewriters, film and video, spreadsheets, word processors, the Internet, and other tools for analyzing technology and education.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**ED PSYCH 795 – INTRODUCTION TO LEARNING SCIENCES I**

3 credits.

Survey of major theories and elementary cognitive and social processes in learning.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ED PSYCH 796 – INTRODUCTION TO THE LEARNING SCIENCES II**

3 credits.

Principles of learning emphasizing higher order cognitive and social processes.

**Requisites:** Ed Psych 795 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ED PSYCH/CURRIC/L I S 803 – COMPUTATIONAL RESEARCH METHODS**

3 credits.

Provides a broad overview of ways of formulating and investigating novel questions with tools from educational data mining and learning analytics including social network analysis, natural language processing, Markov modeling, Bayesian inference, and agent-based modeling.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**ED PSYCH/CURRIC 821 – CONSTRUCTIONISM**

3 credits.

This course is a survey of constructionist theory, research, and tools. Course content and activities will help students develop a deeper understanding of the history, theories, philosophies, tools, research, and technologies of constructionism and its children.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ED PSYCH/ELPA 822 – INTRODUCTION TO QUANTITATIVE INQUIRY IN EDUCATION**

3 credits.

Prepares doctoral students to use the concepts and methods of quantitative social science research to conduct research on education issues. Topics include hypothesis testing, statistical inference, point estimates, graphic and numerical data displays, correlation and regression.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**ED PSYCH/ELPA 827 – SURVEYS AND OTHER QUANTITATIVE DATA COLLECTION STRATEGIES**

3 credits.

This course examines the methods and concepts of survey research methods as they are commonly used in education research. Strategies include surveys (phone, mail, electronic, in person), logs/diaries, and experience sampling instruments. Emphasis is given to self-administered surveys, including periodic surveys, since these strategies are the most common in education research.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**ED PSYCH 840 – CLINICAL PRACTICUM IN SCHOOL PSYCHOLOGY**

1-6 credits.

Applied experience in comprehensive psychological and educational evaluation procedures with children, parent interviewing, school consultation; remedial therapeutic, and counseling techniques with children and parents; practicum experience individually determined by student's prior training and course work.

**Requisites:** Ed PSYCH 740, 741 cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ED PSYCH 844 – CHILDHOOD AND ADOLESCENT PSYCHOPATHOLOGY IN SCHOOLS**

3 credits.

Reviews major psychological disorders of childhood and adolescence as relevant to schools; examines etiology and developmental course, documenting major characteristics and behavior correlates of disorders; provides a comparison of major diagnostic and classification systems for childhood psychopathology.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ED PSYCH 845 – PSYCHOPHARMACOLOGICAL TREATMENTS FOR CHILDREN AND ADOLESCENTS**

3 credits.

Provides an overview of psychopharmacological treatments of childhood and adolescent disorders in educational settings. Topics covered include basic biological principles of drugs and drug treatment, specific drug classifications and their biological actions, drug treatments for childhood disorders, and professional issues.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**ED PSYCH 861 – STATISTICAL ANALYSIS AND DESIGN IN EDUCATIONAL RESEARCH**

3 credits.

A non-parametric perspective of classical experimental designs and their application to educational research, factorial treatment arrangements, repeated measures designs, and related topics.

**Requisites:** Ed Psych 760 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**ED PSYCH 862 – MULTIVARIATE ANALYSIS**

3 credits.

Advanced statistics devoted to multivariate distribution theory and analysis; multivariate analysis of variance, discriminant analysis, canonical correlation, etc., considered in relation to each other; review of contributions of Fisher, Hotelling, Rao, and others.

**Requisites:** Ed Psych 861 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2009**ED PSYCH 871 – TEST THEORY II**

3 credits.

Continuation of 870. Theory underlying validity, scoring procedures, prediction and classification, normal, binomial, Poisson and logistic models.

**Requisites:** Differential calculus and an intermed crse in stat required**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2011**ED PSYCH/HDFS/NURSING/SOC WORK 880 – PREVENTION SCIENCE**

3 credits.

This course provides a theoretical, empirical and practical foundation for prevention science as it relates to the prevention of human social problems. Research and evaluation methods, program design strategies, best practices and policy as they relate to the field of prevention are also examined. Intended for 2nd year graduate students.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ED PSYCH/HDFS/NURSING/SOC WORK 881 – CAPSTONE SEMINAR IN PREVENTION SCIENCE**

1 credit.

This course provides an opportunity for students to meet with prevention professionals and scholars from across campus and the community to explore current and emerging issues of prevention research and professional practice. Students must complete HDFS/ED PSYCH/NURSING/SOC WORK 880 before taking this course.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ED PSYCH 920 – SEMINAR IN CHILD DEVELOPMENT**

2-3 credits.

Specialized seminar focusing on topics in the social, emotional, and cognitive development of children. Investigations of the relations between development, learning, and behavior in educational contexts. See timetable for current topics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014**ED PSYCH 921 – SEMINAR IN ADOLESCENT DEVELOPMENT**

2-3 credits.

Selected aspects of intellectual, emotional, physiological, personality and social development in adolescence. Understanding adolescent behavior in educational settings.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**ED PSYCH 925 – ADVANCED SEMINAR IN HUMAN DEVELOPMENT**

2-3 credits.

This course is designed to provide an in-depth review and analysis of specific areas of human development, such as cognitive, moral, language, neurological, social, and personality development.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ED PSYCH 942 – SYSTEMS OF CONSULTATION IN SCHOOL PSYCHOLOGY**

2-3 credits.

Mental health, behavioral and organization development models of consultation in school psychology. Overview of evidence-based prevention and intervention programs as implemented in a consultation problem-solving process.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ED PSYCH 943 – INTERNSHIP IN SCHOOL PSYCHOLOGY**

1-12 credits.

Supervised individualized placements in appropriate schools, institutions, and community agencies; controlled exposure to job demands of school psychologists; experience in dealing with problem children, adolescents, and their families.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ED PSYCH/COUN PSY/RP & SE 944 – INTERNSHIP PREPARATION**

1 credit.

Primary goal of this course is to help students in Counseling Psychology, Rehabilitation Psychology Special Education, and the School Psychology Program prepare for their internship by providing recourses, guidelines, and support in selecting and applying to internship sites.

**Requisites:** Dissertator status in the department**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2012**ED PSYCH/SOC WORK 945 – EVALUATION RESEARCH**

3 credits.

A comprehensive introduction to practice of program evaluation research in social welfare and human development. Developments in descriptive, experimental, quasi-experimental, theory-driven, and naturalistic evaluations detailed. Topics include assessment, evaluation design, monitoring, outcome evaluation, selection bias, program theory, meta-analysis and utilization.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014

**ED PSYCH 946 – ADVANCED ASSESSMENT AND INTERVENTION TECHNIQUES**

3 credits.

Advanced assessment practices and the corresponding link to intervention; intervention strategies and programs designed to improve the academic, emotional, behavioral and social functioning of children and adolescents.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ED PSYCH 947 – EVIDENCED-BASED CHILD AND ADOLESCENT PSYCHOTHERAPY**

3 credits.

Critical review of various psychotherapeutic approaches (cognitive, behavioral, psychodynamic) with special emphasis on identifying and implementing evidence-based assessment and interventions for a variety of behavioral and emotional problems experienced by children and adolescents.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ED PSYCH 948 – RESEARCH AND MEASUREMENT SEMINAR IN SCHOOL PSYCHOLOGY**

3 credits.

Focus on research and measurement methods, special topics, technical writing, and ethical principles in conducting research in school psychology. Emphasis on skills needed to design and complete individual research projects.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ED PSYCH 960 – STRUCTURAL EQUATION MODELING**

3 credits.

Introduction to the theory and practice of structural equation modeling in the educational and social sciences, including path analysis, confirmatory factor analysis and hybrid models.

**Requisites:** Ed Psych 760 761, or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ED PSYCH 961 – SEMINAR-STATISTICS AND RESEARCH DESIGN**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**ED PSYCH 963 – DESIGN & ANALYSIS OF QUASI-EXPERIMENTS FOR CAUSAL INFERENCE**

3 credits.

An applied introduction to causal inference with regression discontinuity designs, interrupted time series designs, non-equivalent control group designs (matching designs), and instrumental variable designs is given.

**Requisites:** Ed Psych 763 or equivalent regression courses (with consent of instructor)**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ED PSYCH/ELPA 964 – HIERARCHICAL LINEAR MODELING**

3 credits.

Introduction to the statistical methodology of hierarchical linear modeling, including random intercept and random slope and intercept models; models for longitudinal data; and multilevel generalized linear models.

**Requisites:** Ed Psych 760 761, or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ED PSYCH 971 – ADVANCED SEMINAR IN EDUCATIONAL MEASUREMENT AND STATISTICS**

1-2 credits.

Each week, students will read and discuss a different current article from the educational statistics and measurement literature. The purpose of this course is to explore a variety of subjects in which students might like to eventually conduct research.

**Requisites:** Ed Psych 871 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ED PSYCH 990 – RESEARCH OR THESIS**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ED PSYCH/COUN PSY/PSYCH/RP & SE 995 – PREDOCTORAL INTERNSHIP**

0 credits.

Registration for Ph.D. students who have successfully defended the dissertation and are in the process of completing the required predoctoral internship.

**Requisites:** Successful dissertation defense**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**ED PSYCH 999 – INDEPENDENT READING**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## ELECTRICAL AND COMPUTER ENGINEERING (E C E)

**E C E 1 – COOPERATIVE EDUCATION PROGRAM**

1 credit.

Work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career.

**Requisites:** So st**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E C E 203 – SIGNALS, INFORMATION, AND COMPUTATION**

3 credits.

Introduction to the signals, information, and computational techniques in electrical engineering.

**Requisites:** MATH 211, 217, 221, or 275**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 210 – INTRODUCTORY EXPERIENCE IN ELECTRICAL ENGINEERING**

2 credits.

An introduction to electrical and electronic devices, circuits and systems including software and hardware focusing on a real-world project. Open to Freshmen

**Requisites:** Advanced math competence - algebra, trigonometry or suitable placement scores.**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 219 – ANALYTICAL METHODS FOR ELECTROMAGNETICS ENGINEERING**

1 credit.

Reviews basic calculations in electromagnetic engineering upon which all higher level concepts and physical model construction are based. It emphasizes quantitative calculation mastery in three spatial dimensions and/or time-frequency analysis. Applies analysis tools from vector calculus and complex exponentials to the calculation and prediction of electrical system properties. Examples include calculating electric and magnetic fields, electric potentials, or electric flux from charge or current sources, and calculating the amplitudes and phases of electric or magnetic fields due to time-oscillating sources.

**Requisites:** MATH 234 or concurrent registration; ECE 203 or concurrent registration**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 220 – ELECTRODYNAMICS I**

3 credits.

Potential theory; static and dynamic electric and magnetic fields; macroscopic theory of dielectric and magnetic materials; Maxwell's equations; boundary conditions; wave equation; introduction to transmission lines.

**Requisites:** PHYSICS 202, ECE 219; ECE 230 or concurrent registration**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 230 – CIRCUIT ANALYSIS**

4 credits.

Kirchhoff's laws, resistive circuits, equivalent circuits using Thevenin-Norton theories, small signal analysis, dc operating point, first-order circuits, second-order circuits, SPICE and circuit simulation methods, sinusoidal steady state, phasors, poles and zeros of network functions, ideal transformed linear and non-linear two-port networks.

**Requisites:** MATH 222, PHYSICS 202**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E/PHYSICS 235 – INTRODUCTION TO SOLID STATE ELECTRONICS**

3 credits.

An introduction to the physical principles underlying solid-state electronic and photonic devices, including elements of quantum mechanics, crystal structure, semiconductor band theory, carrier statistics, and band diagrams. Offers examples of modern semiconductor structures.

**Requisites:** MATH 222 PHYSICS 202**Requisites:** Open to Fr.**Course Designation:** Level - Intermediate**L&S Credit - Counts as Liberal Arts and Science credit in L&S****Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E/COMP SCI 252 – INTRODUCTION TO COMPUTER ENGINEERING**

2 credits.

Logic components built with transistors, rudimentary Boolean algebra, basic combinational logic design, basic synchronous sequential logic design, basic computer organization and design, introductory machine- and assembly-language programming.

**Requisites:** None**Course Designation:** Level - Elementary**L&S Credit - Counts as Liberal Arts and Science credit in L&S****Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 270 – CIRCUITS LABORATORY I**

1 credit.

Experiments cover Kirchhoff's laws, inductors, basic operational amplifier circuits, and frequency response.

**Requisites:** ECE 170; ECE 230 or con reg**Repeatable for Credit:** No**Last Taught:** Fall 2017

**E C E 271 – CIRCUITS LABORATORY II**

1 credit.

Experiments cover electronic device characteristics, limitations and applications of operational amplifiers, and feedback circuits.

**Requisites:** ECE 270; ECE 340 or con reg**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 303 – INTRODUCTION TO REAL-TIME DIGITAL SIGNAL PROCESSING**

2 credits.

Real-Time Digital Signal Processing" emphasizes the implementation of DSP algorithms on a digital signal processor in "real-time." Many of the signal processing algorithms that were used in ECE203 will be reviewed in Matlab and then will be implemented on a floating point signal processor in "real-time" using the C programming language. You will explore many basic digital signal processing processes in real-time. Followed by a student chosen project. You will gain the ability to create and develop your own Digital Signal Processing projects for a modern digital signal processor using an Integrated Development Environment. Lab hardware will be provided.

**Requisites:** ECE 203**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 304 – ELECTRIC MACHINES LABORATORY**

1 credit.

Terminal characteristics of electric machines, elements of speed control, voltage regulation, and applications in systems. Emphasis on the experimental approach to the solution of complex physical problems.

**Requisites:** ECE 271; ECE 355 or con reg**Repeatable for Credit:** No**Last Taught:** Spring 2017**E C E 305 – SEMICONDUCTOR PROPERTIES LABORATORY**

1 credit.

Introduction to some fundamental properties of semiconductor materials and devices through the use of characterization techniques common in modern electronic industry. These concepts include: charge carriers; energy bands; space charge regions; carrier drift, diffusion and recombination; light emission; and lattice vibrations.

**Requisites:** ECE 271; ECE 335 or con reg**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 306 – LINEAR ACTIVE CIRCUITS LABORATORY**

1 credit.

Direct coupled and operational amplifier characteristics; applications of feedback; practical aspects.

**Requisites:** ECE 271; ECE 342 or con reg**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 308 – NONLINEAR ELECTRONIC CIRCUITS LABORATORY**

1 credit.

An experimental study of selected nonlinear electronic circuits and devices using diodes, transistors, op-amps, timers, data converters, and logic components.

**Requisites:** ECE 271; ECE 342 or con reg**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 313 – OPTOELECTRONICS LAB**

1 credit.

Light detection using photovoltaic and photoconductive detectors and phototransistors. Light generation using light emitting diodes and laser diodes. Light transmission using optical fibers. Optoisolators and optical switches. Light emitting diode and liquid crystal displays.

**Requisites:** ECE 271; 340; or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 315 – INTRODUCTORY MICROPROCESSOR LABORATORY**

1 credit.

Software and hardware experiments with a microcomputer system. Assembly language programming, simple input/output interfacing, and interrupt processing in microcomputer systems. Concurrent registration in 353 is allowed if 315 is taken second half of semester.

**Requisites:** E C E 353**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 317 – SENSORS LABORATORY**

1 credit.

A hands-on introduction to a variety of different sensor types. Labs incorporate implementation concerns involving interference, isolation, linearity, amplification, and grounding.

**Requisites:** ECE 271, ECE 340 or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 320 – ELECTRODYNAMICS II**

3 credits.

Static and dynamic electromagnetic fields; forces and work in electromechanical systems; magnetic circuits; plane wave propagation; reflection of plane waves; generalized transmission line equations; current and voltage on transmission lines; impedance transformation and matching; Smith charts.

**Requisites:** ECE 220; MATH 319 or 320 or concurrent registration, or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017

**E C E 330 – SIGNALS AND SYSTEMS**

3 credits.

Time-domain response and convolution; frequency-domain response using Fourier series, Fourier transform, Laplace transform; discrete Fourier series and transform; sampling; z-transform; relationships between time and frequency descriptions of discrete and continuous signals and systems.

**Requisites:** ECE 203; ECE 230 or equivalent**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 331 – INTRODUCTION TO RANDOM SIGNAL ANALYSIS AND STATISTICS**

3 credits.

Introduction to probability, random variables, and random processes. Confidence intervals, introduction to experimental design and hypothesis testing. Statistical averages, correlation, and spectral analysis for wide sense stationary processes. Random signals and noise in linear systems.

**Requisites:** ECE 330**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 332 – FEEDBACK CONTROL SYSTEMS**

3 credits.

Modeling of continuous systems; computer-aided solutions to systems problems; feedback control systems; stability, frequency response and transient response using root locus, frequency domain and state variable methods.

**Requisites:** ECE 330**Repeatable for Credit:** No**Last Taught:** Summer 2017**E C E 334 – STATE SPACE SYSTEMS ANALYSIS**

3 credits.

Analysis of systems using matrix methods to write and solve state-variable differential equations. Additional topics include stability, controllability, observability, state feedback, observers, and dynamic output feedback.

**Requisites:** MATH 320 or 340 or con reg**Repeatable for Credit:** No**Last Taught:** Spring 2017**E C E 335 – MICROELECTRONIC DEVICES**

3 credits.

Characteristics of semiconductors; study of physical mechanisms and circuit modeling of solid state electronic and photonic devices; principles of microelectronic processing and examples of integrated circuits.

**Requisites:** E C E 220, E C E 230, and E C E/PHYSICS 235**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 340 – ELECTRONIC CIRCUITS I**

3 credits.

A first course in modeling, characterization, and application of semiconductor devices and integrated circuits. Development of appropriate models for circuit-level behavior of diodes, bi-polar and field effect transistors, and non-ideal op-amps. Application in analysis and design of linear amplifiers. Frequency domain characterization of transistor circuits.

**Requisites:** ECE 230**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 342 – ELECTRONIC CIRCUITS II**

3 credits.

A second course in modeling and application of semiconductor devices and integrated circuits. Advanced transistor amplifier analysis, including feedback effects. Design for power amplifiers, op-amps, analog filters, oscillators, A/D and D/A converters, and power converters. Introduction to transistor level design of CMOS digital circuits.

**Requisites:** ECE 340**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E/COMP SCI 352 – DIGITAL SYSTEM FUNDAMENTALS**

3 credits.

Logic components, Boolean algebra, combinational logic analysis and synthesis, synchronous and asynchronous sequential logic analysis and design, digital subsystems, computer organization and design.

**Requisites:** COMP SCI/E C E/COMP SCI 252**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Physical Sci. Counts toward the Natural Sci req Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 353 – INTRODUCTION TO MICROPROCESSOR SYSTEMS**

3 credits.

Introduction to architecture, operation, and application of microprocessors; microprocessor programming; address decoding; system timing; parallel, serial, and analog I/O; interrupts and direct memory access; interfacing to static and dynamic RAM; microcontrollers.

**Requisites:** ECE 352, Comp Sci 354, ECE 340 or concurrent registration**Repeatable for Credit:** No**Last Taught:** Fall 2017



**E C E/COMP SCI 354 – MACHINE ORGANIZATION AND PROGRAMMING**  
3 credits.

An introduction to fundamental structures of computer systems and the C programming language with a focus on the low-level interrelationships and impacts on performance. Topics include the virtual address space and virtual memory, the heap and dynamic memory management, the memory hierarchy and caching, assembly language and the stack, communication and interrupts/signals, compiling and assemblers/linkers.

**Requisites:** COMP SCI/E C E/COMP SCI 252 and (COMP SCI 300 or 302) or graduate or professional standing or declared in the Capstone Certificate in Computer Sciences for Professionals

**Course Designation:** Gen Ed - Quantitative Reasoning Part B  
Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E C E 355 – ELECTROMECHANICAL ENERGY CONVERSION**  
3 credits.

Energy storage and conversion, force and emf production, coupled circuit analysis of systems with both electrical and mechanical inputs. Applications to electric motors and generators and other electromechanical transducers.

**Requisites:** ECE 230, ECE 320

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E C E 356 – ELECTRIC POWER PROCESSING FOR ALTERNATIVE ENERGY SYSTEMS**  
3 credits.

Introduction to electrical power processing technologies that are necessary to convert energy from alternative sources into useful electrical forms. Several specific alternative energy sources are examined, providing platforms for introducing basic concepts in power electronics, electric machines, and adjustable-speed drives.

**Requisites:** ECE 230 or ECE 376 or equiv or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E C E 370 – ADVANCED LABORATORY**  
2 credits.

Experiments related to the required core material.

**Requisites:** ECE 271, ECE 320, ECE 330, ECE 335, ECE 351

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E C E 376 – ELECTRICAL AND ELECTRONIC CIRCUITS**  
3 credits.

DC and AC electrical circuit analysis methods, and analog and digital circuit design and analysis including operational amplifier linear circuits, digital combinational logic circuits, and computer interface circuits which combine both digital and analog devices for interfacing physical systems. Includes five laboratory sessions.

**Requisites:** MATH 222 PHYSICS 202

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E C E 377 – FUNDAMENTALS OF ELECTRICAL AND ELECTRO-MECHANICAL POWER CONVERSION**  
3 credits.

Fundamentals of electromagnetic induction and application to transformers and induction heating; Lorentz forces with a focus on the operation and control of DC and AC motors and linear actuators; electrical power conversion using power electronics for motor drives and direct power converters. Includes five laboratory sessions.

**Requisites:** MATH 234, familiarity with ordinary differential equations, PHYSICS 202 ECE 376

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E C E 379 – SPECIAL TOPICS IN ELECTRICAL AND COMPUTER ENGINEERING**  
1-4 credits.

Topics of special interest to undergrads in electrical and computer engineering.

**Requisites:** So St and cons inst

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**E C E 399 – INDEPENDENT STUDY**  
1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**E C E 401 – ELECTRO-ACOUSTICAL ENGINEERING**  
3 credits.

Principles of plane and spherical sound waves; acoustical, mechanical, and electrical analogies; electroacoustic transducer materials and techniques; specific types of transducers such as microphones and loudspeakers.

**Requisites:** E C E 330

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E C E 411 – INTRODUCTION TO ELECTRIC DRIVE SYSTEMS**

3 credits.

Basic concepts of electric drive systems. Emphasis on system analysis and application. Topics include: dc machine control, variable frequency operation of induction and synchronous machines, unbalanced operation, scaling laws, adjustable speed drives, adjustable torque drives, coupled circuit modelling of ac machines.

**Requisites:** ECE 355**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 412 – POWER ELECTRONIC CIRCUITS**

3 credits.

Operating characteristics of power semiconductor devices such as Bipolar Junction Transistors, IGBTs, MOSFETs and Thyristors. Fundamentals of power converter circuits including dc/dc converters, phase controlled ac/dc rectifiers and dc/ac inverters. Practical issues in the design and operation of converters. Course available on videotape.

**Requisites:** ECE 342 or equiv or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**E C E 420 – ELECTROMAGNETIC WAVE TRANSMISSION**

3 credits.

Transmission lines: frequency domain analysis of radio frequency and microwave transmission circuits including power relations and graphical and computer methods. Electromagnetic waves: planar optical components, pulse dispersion, phase front considerations for optical components, conducting waveguides, dielectric waveguides. Radiation: retarded potentials, elemental dipoles, radiating antenna characterization, receiving mode.

**Requisites:** ECE 320**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**E C E 427 – ELECTRIC POWER SYSTEMS**

3 credits.

The electric power industry, operation of power systems, load flow, fault calculations, economic dispatch, general technical problems of electric power networks.

**Requisites:** ECE 330 or equiv**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 431 – DIGITAL SIGNAL PROCESSING**

3 credits.

Sampling continuous-time signals and reconstruction of continuous-time signals from samples; spectral analysis of signals using the discrete Fourier transform; the fast Fourier transform and fast convolution methods; z-transforms; finite and infinite impulse response filter design techniques; signal flow graphs and introduction to filter implementation.

**Requisites:** ECE 330**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 432 – DIGITAL SIGNAL PROCESSING LABORATORY**

3 credits.

Implementation of digital signal processing algorithms on special-purpose and general-purpose hardware. Use of assembly and high-level languages, and simulator to develop and test IIR, FIR filters and the FFT for modern DSP chips. Scaling for fixed point arithmetic. Use of high level languages to implement real time, object oriented component based DSP systems in general purpose computers. DSP applications, including data and voice communication systems.

**Requisites:** ECE 431, Comp Sci 302**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2013**E C E 434 – PHOTONICS**

3 credits.

Introduction to ray optics, physical optics and interference, applications of Fourier optics, absorption, dispersion, and polarization of light. Second half of the course treats light sources, including lasers (gas, solid state, and semiconductor), modulation and detection of light.

**Requisites:** ECE 320, ECE 335 or con reg**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**E C E/COMP SCI/MATH 435 – INTRODUCTION TO CRYPTOGRAPHY**

3 credits.

Cryptography is the art and science of transmitting digital information in a secure manner. This course will provide an introduction to its technical aspects.

**Requisites:** MATH 320, 340, 341, or 375**Course Designation:** Level - Advanced  
L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 436 – COMMUNICATION SYSTEMS I**

3 credits.

Amplitude, frequency, pulse, and pulse-code modulation. Narrow-band noise representation and signal-to-noise ratios for various modulation schemes. Pulse shaping, timing recovery, carrier synchronization, and equalization. Sampling, quantization and coding.

**Requisites:** ECE 331**Repeatable for Credit:** No**Last Taught:** Fall 2016

**E C E 437 – COMMUNICATION SYSTEMS II**

3 credits.

Statistical analysis of information transmission systems. Probability of error, design of receivers for digital transmission through additive white Gaussian noise channels and bandlimited channels. Spread spectrum communication systems. Channel capacity, source and error control coding.

**Requisites:** ECE 331; ECE 436 or con reg**Repeatable for Credit:** No**Last Taught:** Spring 2017**E C E/M E 439 – INTRODUCTION TO ROBOTICS**

3 credits.

Hands-on introduction to key concepts and tools underpinning robotic systems in use and development today. Intended to give students the tools to understand robotic systems, to explore robotics for their own purposes, and to pursue advanced study in the field. Students are expected to have familiarity with a high level programming language such as Python (recommended), MATLAB, Java or Julia.

**Requisites:** Senior or graduate standing**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 440 – ELECTROMAGNETIC FIELDS AND WAVES**

3 credits.

Laplace's and Poisson's equations; conformal mapping and boundary value problems; Maxwell's equations; boundary conditions, plane wave propagation, reflection and refraction at oblique incidence, surface impedance concept; ionized media; anisotropic materials; radiation from antennas.

**Requisites:** ECE 420 or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2008**E C E 445 – SEMICONDUCTOR PHYSICS AND DEVICES**

3 credits.

Physics and properties of semiconductors, p-n junctions, metal-semiconductor contacts, homojunction and heterojunction bipolar transistor and physics, metal-oxide-semiconductor and heterostructure field-effect transistor and physics, thin-film resistors, memory devices, quantum devices.

**Requisites:** ECE 335**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**E C E 447 – APPLIED COMMUNICATIONS SYSTEMS**

3 credits.

Analysis with design problems of electronic communications circuits. Emphasis on the nonlinear effects of large-signal operation of active devices. Complete design of r.f. oscillator, amplifier, and mixer circuits.

**Requisites:** ECE 340; ECE 420 recommended**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 453 – EMBEDDED MICROPROCESSOR SYSTEM DESIGN**

4 credits.

Hardware and software design for modern microprocessor-based embedded systems; study of the design process; emphasis on major team design project.

**Requisites:** ECE 315 353**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 454 – MOBILE COMPUTING LABORATORY**

4 credits.

End-to-end project management; teamwork; fundamentals of disciplined development practices; introduction to mobile computing platforms and systems; design, implementation, and deployment of mobile systems and applications.

**Requisites:** Computer Engineering Sr st or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E/B M E 461 – MATHEMATICAL AND COMPUTER MODELING OF PHYSIOLOGICAL SYSTEMS**

3 credits.

Mathematical and computer modeling of physiological systems; principal emphasis on cardiovascular system and individual nerve cells; other topics include respiratory system and skeletal-muscle system; extensive use of "hands-on" computer modeling using ACSL.

**Requisites:** ECE 330 or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2009**E C E/B M E 462 – MEDICAL INSTRUMENTATION**

3 credits.

Design and application of electrodes, biopotential amplifiers, biosensors, therapeutic devices. Medical imaging. Electrical safety. Measurement of ventilation, blood pressure and flow. Lecture and lab.

**Requisites:** ECE 342 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E/B M E 463 – COMPUTERS IN MEDICINE**

3 credits.

Study of microprocessor-based medical instrumentation. Emphasis on real-time analysis of electrocardiograms. Labs and programming project involve design of biomedical digital signal processing algorithms.

**Requisites:** ECE 330, Comp Sci 302**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013

**ECE 466 – ELECTRONICS OF SOLIDS**

3 credits.

Electronic, optical and thermal properties of crystalline solids. Energy-momentum dispersion of fundamental particles and excitations in solids leading to microscopic theories of conductivity, polarizability and permeability. Influence of materials characteristics on the performance of electronic and photonic devices.

**Requisites:** ECE 335, 305, or consent of instructor**Repeatable for Credit:** No**Last Taught:** Spring 2012**ECE 489 – HONORS IN RESEARCH**

1-3 credits.

Undergraduate honors research projects supervised by faculty members. Not available for graduate credit.

**Requisites:** Consent of instructor**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ECE 491 – SENIOR DESIGN PROJECT**

3 credits.

Engineering design projects supervised by faculty members. Not available for graduate credit.

**Requisites:** Sr st cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2017**ECE 504 – ELECTRIC MACHINE & DRIVE SYSTEM LABORATORY**

2-3 credits.

Steady state and dynamic performance of electric machines in combination with power electronic converters. Parameter measurement, performance evaluation, design of experimental procedures for problem solving, use of digital data acquisition systems and signal processing equipment in system evaluation.

**Requisites:** ECE 304 and 411 or con reg 411 and cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2016**ECE/COMP SCI 506 – SOFTWARE ENGINEERING**

3 credits.

Ideas and techniques for designing, developing, and modifying large software systems. Topics include software engineering processes; requirements and specifications; project team organization and management; software architectures; design patterns; testing and debugging; and cost and quality metrics and estimation. Students will work in large teams on a substantial programming project.

**Requisites:** (COMP SCI 367 or 400) and (COMP SCI 407, 536, 537, 545, 559, 564, 570, 679 or COMP SCI/ECE/COMP SCI 552) or graduate or professional standing, or declared in the Capstone Certificate in Computer Sciences for Professionals**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ECE 511 – THEORY AND CONTROL OF SYNCHRONOUS MACHINES**

3 credits.

The idealized three phase synchronous machine time domain model including saliency, time invariant form using Park's transformation, sudden short circuits and other transient conditions, reduced order models, excitation system and turbine/governor control, dynamics of multiple machine systems, transient stability and subsynchronous resonance.

**Requisites:** ECE 355, ECE 427, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**ECE 512 – POWER ELECTRONICS LABORATORY**

3 credits.

This laboratory introduces the student to measurement and simulation of important operating characteristics of power electronic circuits and power semiconductor devices. Emphasis is on devices, circuits, gating methods and power quality.

**Requisites:** ECE 412 or consent required**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ECE/COMP SCI/ISYE 524 – INTRODUCTION TO OPTIMIZATION**

3 credits.

Introduction to mathematical optimization from a modeling and solution perspective. Formulation of applications as discrete and continuous optimization problems and equilibrium models. Survey and appropriate usage of basic algorithms, data and software tools, including modeling languages and subroutine libraries.

**Requisites:** (COMP SCI 200, 300, 301, 302, or 310) and (MATH 320, 340, 341, or 375) or graduate or professional standing**Course Designation:** Breadth - Natural Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ECE/N E/PHYSICS 525 – INTRODUCTION TO PLASMAS**

3 credits.

Basic description of plasmas: collective phenomena and sheaths, collisional processes, single particle motions, fluid models, equilibria, waves, electromagnetic properties, instabilities, and introduction to kinetic theory and nonlinear processes. Examples from fusion, astrophysical and materials processing plasmas.

**Requisites:** One crse in electromagnetic fields beyond elem physics**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**E C E/N E/PHYSICS 527 – PLASMA CONFINEMENT AND HEATING**

3 credits.

Principles of magnetic confinement and heating of plasmas for controlled thermonuclear fusion: magnetic field structures, single particle orbits, equilibrium, stability, collisions, transport, heating, modeling and diagnostics. Discussion of current leading confinement concepts: tokamaks, tandem mirrors, stellarators, reversed field pinches, etc.

**Requisites:** NEEP/Phys/ECE 525 or equiv**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E C E/N E 528 – PLASMA PROCESSING AND TECHNOLOGY**

3 credits.

Introduction to basic understanding and techniques. Plasma processing of materials for semiconductors, polymers, plasma spray coatings, ion implantation, etching, arcs, extractive metallurgy and welding. Plasma and materials diagnostics.

**Requisites:** PHYSICS 322 or ECE 320 or equiv or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E/COMP SCI/M E 532 – THEORY AND APPLICATIONS OF PATTERN RECOGNITION**

3 credits.

Pattern recognition systems and components; decision theories and classification; discriminant functions; supervised and unsupervised training; clustering; feature extraction and dimensional reduction; sequential and hierarchical classification; applications of training, feature extraction, and decision rules to engineering problems.

**Requisites:** MATH 222 and (E C E 203, COMP SCI 200, 300 or 302) or graduate or professional standing**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E/COMP SCI 533 – IMAGE PROCESSING**

3 credits.

Mathematical representation of continuous and digital images; models of image degradation; picture enhancement, restoration, segmentation, and coding; pattern recognition, tomography.

**Requisites:** E C E 330 and (MATH 320 or 340) or graduate or professional standing**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 536 – INTEGRATED OPTICS AND OPTOELECTRONICS**

3 credits.

This course introduces the student to the physical principles, design concepts, and technological consequences of passive, electro-optic, and optic-electronic guided wave devices.

**Requisites:** ECE 320, 335, ECE 434 or 420 or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2016**E C E 537 – COMMUNICATION NETWORKS**

3 credits.

Study of communication networks with focus on performance analysis. Layered network structure. Basic protocol functions such as addressing, multiplexing, routing, forwarding, flow control, error control, and congestion response. Overview of transport, network, and link layer protocol standards. Introduction to wireless and mobile networks.

**Requisites:** ECE 203, Comp Sci 367**Repeatable for Credit:** No**Last Taught:** Spring 2017**E C E/COMP SCI/M E 539 – INTRODUCTION TO ARTIFICIAL NEURAL NETWORK AND FUZZY SYSTEMS**

3 credits.

Theory and applications of artificial neural networks and fuzzy logic: multi-layer perceptron, self-organization map, radial basis network, Hopfield network, recurrent network, fuzzy set theory, fuzzy logic control, adaptive fuzzy neural network, genetic algorithm, and evolution computing. Applications to control, pattern recognition, nonlinear system modeling, speech and image processing.

**Requisites:** COMP SCI 200, 301, 302, or 310 or graduate or professional standing**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** No**Last Taught:** Fall 2017



**E C E 541 – ANALOG MOS INTEGRATED CIRCUIT DESIGN**

3 credits.

Analysis, design and applications of modern analog circuits using integrated bipolar and field-effect transistor technologies. Provides the student with a working knowledge of the basic circuits used in modern analog integrated circuits and techniques for analysis and design.

**Requisites:** ECE 342 or ECE 340 cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 542 – INTRODUCTION TO MICROELECTROMECHANICAL SYSTEMS**  
3 credits.

Introduction to MEMS technology, devices and systems. Fundamentals of MEMS in fabrication, process integration, material mechanics of MEMS structures, sensors and actuators. Main topics in MEMS - microfluidics, optical MEMS, RF MEMS, BioMEMS, packaging, and CAD.

**Requisites:** ECE 335 or 340, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**E C E/CBE/M S & E 544 – PROCESSING OF ELECTRONIC MATERIALS**  
3 credits.

Physics and chemistry principles underlying microelectronic materials processing. Effects of processing on materials and structures important in microelectronic and opto-electronic devices.

**Requisites:** CBE 440 or MSE 351 or ECE 335; or cons inst**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2009**E C E 545 – ADVANCED MICROWAVE MEASUREMENTS FOR COMMUNICATIONS**  
3 credits.

Measurements at VHF and microwave frequencies; characteristics of microwave generators, amplifiers, passive devices and detection systems; measurement of frequency, noise and simple antenna patterns; time domain reflectometry, swept frequency network and spectrum analyzer techniques; lecture and lab.

**Requisites:** ECE 301, ECE 444 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**E C E/PHYSICS 546 – LASERS**

2-3 credits.

General principles of laser operation; laser oscillation conditions; optical resonators; methods of pumping lasers, gas discharge lasers, e-beam pumped lasers, solid state lasers, chemical lasers, and dye lasers; gain measurements with lasers; applications of lasers.

**Requisites:** PHYSICS 322 or ECE 420 or equiv; PHYSICS 545, or 449 or 531**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**E C E 547 – ADVANCED COMMUNICATIONS CIRCUIT DESIGN**  
3 credits.

Principles underlying the design of r.f. and microwave communications circuits. Analysis and design of wideband nonlinear power amplifiers, S-parameter techniques for r.f. active circuit design, computer aided design techniques, r.f. integrated circuits, fundamentals of low noise r.f. design.

**Requisites:** ECE 447, ECE 420 or con reg, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**E C E 548 – INTEGRATED CIRCUIT DESIGN**  
3 credits.

Bipolar and MOS devices in monolithic circuits. Device physics, fabrication technology. IC-design for linear and nonlinear circuitry.

**Requisites:** ECE 335**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 549 – INTEGRATED CIRCUIT FABRICATION LABORATORY**  
3 credits.

Monolithic integrated circuit fabrication; mask making, photolithography, oxidation, diffusion, junction evaluation, metallization, packaging, and testing.

**Requisites:** ECE 548 or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2015**E C E 551 – DIGITAL SYSTEM DESIGN AND SYNTHESIS**  
3 credits.

Introduction to the use of hardware description languages and automated synthesis in design. Advanced design principles. Verilog and VHDL description languages. Synthesis from hardware description languages. Timing-oriented synthesis. Relation of integrated circuit layout to timing-oriented design. Design for reuse.

**Requisites:** ECE/Comp Sci 352 Jr st**Repeatable for Credit:** No**Last Taught:** Fall 2017



**E C E/COMP SCI 552 – INTRODUCTION TO COMPUTER ARCHITECTURE**  
3 credits.

The design of computer systems and components. Processor design, instruction set design, and addressing; control structures and microprogramming; memory management, caches, and memory hierarchies; and interrupts and I/O structures. E C E 551 or knowledge of Verilog is recommended.

**Requisites:** COMP SCI/E C E/COMP SCI 352 and COMP SCI/E C E/COMP SCI 354

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E C E 553 – TESTING AND TESTABLE DESIGN OF DIGITAL SYSTEMS**  
3 credits.

Faults and fault modeling, test equipment, test generation for combinational and sequential circuits, fault simulation, memory and microprocessor testing, design for testability, built-in self-test techniques, and fault location.

**Requisites:** ECE/Comp Sci 352; Comp Sci 367; ECE 353 or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**E C E 554 – DIGITAL ENGINEERING LABORATORY**  
4 credits.

Practical aspects of computer system design. Design, construction, and testing of significant digital subsystems. Design, construction, and programming of pipelined digital computers.

**Requisites:** ECE 352; ECE/Comp Sci 552

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E C E 555 – DIGITAL CIRCUITS AND COMPONENTS**  
3 credits.

Principles and characterization of logic circuits. Design and analysis techniques for applied logic circuits. Transmission lines in digital applications. Families of circuit logic currently in use and their characteristics.

**Requisites:** ECE 340; ECE/Comp Sci 352

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E C E 556 – DESIGN AUTOMATION OF DIGITAL SYSTEMS**  
3 credits.

Use of digital computers to simulate, partition, place and interconnect digital electronic systems.

**Requisites:** ECE/Comp Sci 352; Comp Sci 367; or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E C E/M E 577 – AUTOMATIC CONTROLS LABORATORY**  
4 credits.

Control theory is reduced to engineering practice through the analysis and design of actual systems in the laboratory. Experiments are conducted with modern servo systems using both analog and digital control. Systems identification and modern controls design are applied to motion and torque control.

**Requisites:** ME 446 447 or ECE 332 416 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**E C E 600 – SEMINAR IN ELECTRICAL AND COMPUTER ENGINEERING**  
0 credits.

Weekly or bi-weekly seminars on topics in electrical and computer engineering including automatic control, biomedical engineering, communications and signal processing, computer engineering, electromagnetic fields, energy and power systems, photonics, plasma, and solid state. Seminar on a particular topic may include lectures given by faculty, invited speakers, as well as group discussion.

**Requisites:** Cons inst

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**E C E 601 – SPECIAL TOPICS IN ELECTRICAL AND COMPUTER ENGINEERING**  
1-4 credits.

Advanced topics of special interest to students in various areas of Electrical and Computer Engineering.

**Requisites:** Jr st cons inst

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**E C E 610 – SEMINAR IN ELECTRICAL AND COMPUTER ENGINEERING**  
1 credit.

Survey of topics within the department of electrical and computer engineering that introduce students to the materials/techniques to assist them in being successful graduate students. Faculty seminars spanning energy and power systems, applied physics, electromagnetic fields, plasmas, communications and signal processing, controls, photonics, solid state, and computers will be given. Additionally, students will participate in weekly group exercises to enhance their skills in engineering/technical communications, writing, ethics, and project management.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E C E 611 – INTRODUCTION TO DOCTORAL RESEARCH IN ELECTRICAL & COMPUTER ENGINEERING**

2 credits.

A focus on topics within the department of electrical and computer engineering that introduce students to the materials/techniques that will assist them in being successful graduate students. Faculty seminars spanning energy and power systems, applied physics, electromagnetic fields, plasmas, communications and signal processing, controls, photonics, solid state, and computers will be given. Additionally, students will participate in weekly group exercises to enhance their skills in engineering/technical communications, writing, ethics, and project management. Graded homework and a final project are assigned.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**E C E 630 – ALL OF SIGNAL PROCESSING**

3 credits.

A broad range of basic and advanced signal processing concepts presented in a MATLAB intensive, application driven environment designed to acquaint students with the fundamental ideas and language of signal processing.

**Requisites:** Grad st; MATH 222; and STAT 311, 324 or 371; or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**E C E/MATH 641 – INTRODUCTION TO ERROR-CORRECTING CODES**

3 credits.

A first course in coding theory. Codes (linear, Hamming, Golay, dual); decoding-encoding; Shannon's theorem; sphere-packing; singleton and Gilbert-Varshamov bounds; weight enumerators; MacWilliams identities; finite fields; other codes (Reed-Muller, cyclic, BCH, Reed-Solomon) and error-correction algorithms.

**Requisites:** MATH 320 or 340, and MATH 541 or cons inst**Course Designation:** Breadth - Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 699 – ADVANCED INDEPENDENT STUDY**

1-6 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E C E 702 – GRADUATE COOPERATIVE EDUCATION PROGRAM**

1-2 credits.

Work experience that combines classroom theory with practical knowledge of operations to provide students with a background on which to develop and enhance a professional career. The work experience is tailored for MS students from within the U.S. as well as eligible international students.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E C E/COMP SCI 707 – MOBILE AND WIRELESS NETWORKING**

3 credits.

Design and implementation of protocols, systems, and applications for mobile and wireless networking, particularly at the media access control, network, transport, and application layers. Focus is on the unique problems and challenges presented by the properties of wireless transmission, various device constraints such as limited battery power, and node mobility. Knower of computer networking is strongly encouraged, such as from COMP SCI 640 or E C E 537.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 711 – DYNAMICS AND CONTROL OF AC DRIVES**

3 credits.

Principles of power converters, two axis models of AC machines and AC drives, simulation of drive systems, analytical modeling of drives, dynamic behavior of induction and synchronous motors and drive systems. Offered every third semester.

**Requisites:** ECE 332 411 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**E C E 712 – SOLID STATE POWER CONVERSION**

3 credits.

Advanced course in power electronics which provides an understanding of switching power converters. Included are DC-to-DC, AC-to-DC, DC-to-AC, and AC-to-AC converters, commutation techniques, converter control, interfacing converters with real sources and loads. Offered every third semester.

**Requisites:** ECE 412 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**E C E 713 – ELECTROMAGNETIC DESIGN OF AC MACHINES**

3 credits.

Electromagnetic design concepts and application to AC machines, magnetic circuit concepts, calculation of equivalent circuit parameters of induction, synchronous and permanent magnet machines from geometric data, copper and iron loss calculations, theory and application of finite elements to electromagnetic devices. Offered every third semester.

**Requisites:** ECE 411 or 511 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**E C E 714 – UTILITY APPLICATION OF POWER ELECTRONICS**

3 credits.

Power electronic application to utility systems is a rapidly growing field with major impact on the industry. This course will cover material on HVDC transmission, energy storage systems, renewable sources, static compensators, and flexible ac transmission systems.

**Requisites:** ECE 412, ECE 427, cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**E C E 717 – LINEAR SYSTEMS**

3 credits.

Equilibrium points and linearization; natural and forced response of state equations; system equivalence and Jordan form; Lyapunov, asymptotic, and BIBO stability; controllability and duality; control-theoretic concepts such as pole-placement, stabilization, observers, dynamic compensation, and the separation principle.

**Requisites:** MATH 340 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 719 – OPTIMAL SYSTEMS**

3 credits.

Optimality considerations in the study of dynamical systems; applications to electrical systems gain selection, tuning, conditions for optimality, feedback and instability, iterative methods, filtering, prediction, smoothing, dynamic programming controller synthesis, stability and robustness criteria.

**Requisites:** ECE 334 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**E C E 723 – ON-LINE CONTROL OF POWER SYSTEMS**

3 credits.

State estimation based on line-flow measurements. Detection and correction of incorrect on-line measurements. Reduction techniques. Network security evaluation. On-line contingency studies and contingency remedial action. Calculation of penalty factors and optimal power dispatch strategies. On-line stability determination. Parallel processors for on-line studies.

**Requisites:** Basic probability theory, ECE 722**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**E C E/N E/PHYSICS 724 – WAVES AND INSTABILITIES IN PLASMAS**

3 credits.

Waves in a cold plasma, wave-plasma interactions, waves in a hot plasma, Landau damping, cyclotron damping, magneto-hydrodynamic equilibria and instabilities, microinstabilities, introduction to nonlinear processes, and experimental applications.

**Requisites:** NEEP/ECE/PHYSICS/E C E/N E 525 PHYSICS 721 or ECE 740 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E/N E/PHYSICS 725 – PLASMA KINETIC THEORY AND RADIATION PROCESSES**

3 credits.

Coulomb Collisions, Boltzmann equation, Fokker-Planck methods, dynamical friction, neoclassical diffusion, collision operators radiation processes and experimental applications.

**Requisites:** Physics, ECE, NEEP 525 PHYSICS 721 or ECE 740 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**E C E/N E/PHYSICS 726 – PLASMA MAGNETOHYDRODYNAMICS**

3 credits.

MHD equations and validity in hot plasmas; magnetic structure and magnetic flux coordinates; equilibrium in various configurations; stability formulation, energy principle, classification of instabilities; ideal and resistive instability in various configurations, evolution of nonlinear tearing modes; force-free equilibria, helicity, MHD dynamo; experimental applications.

**Requisites:** NEEP/ECE/PHYSICS/E C E/N E 525 PHYSICS 721 or ECE 740 or cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**E C E 729 – THEORY OF INFORMATION PROCESSING AND TRANSMISSION**

3 credits.

Definition of measures of information and their properties, capacity of discrete and continuous channels with noise, source and channel coding theorems, fundamentals of channel coding, noiseless source coding, and source coding with a fidelity criterion.

**Requisites:** ECE 331 or MATH/STAT 431 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E C E 730 – MODERN PROBABILITY THEORY AND STOCHASTIC PROCESSES**

3 credits.

Stochastic processes in linear and nonlinear systems; stationarity, continuity, ergodicity; power spectrum and systems; estimation theory, filtering and prediction; harmonic analysis; nonstationary normal processes.

**Requisites:** ECE 331 or equiv

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E C E 731 – ADVANCED POWER SYSTEM ANALYSIS**

3 credits.

Electrical transients due to faults and switching. Effect on power system design and operation. Traveling waves and surge protection. Computerized analysis of power transients.

**Requisites:** Con reg ECE 511 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E C E 734 – VLSI ARRAY STRUCTURES FOR DIGITAL SIGNAL PROCESSING**

3 credits.

An overview of the architectures and design methodologies of VLSI array processors for digital signal processing. Emphasis is placed on the techniques of mapping algorithms onto array structures for real time signal processing.

**Requisites:** ECE 431, 552, or equiv, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**E C E 735 – SIGNAL SYNTHESIS AND RECOVERY TECHNIQUES**

3 credits.

Signals and their representation. Signal synthesis subject to constraints on peak voltage, energy, duration-bandwidth product. The theory of alternating projections onto convex sets and applications to inverse problems in signal processing: signal recovery using incomplete data, image recovery in tomography using limited views, phase retrieval in optical astronomy.

**Requisites:** ECE 431 or 533 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E C E 736 – WIRELESS COMMUNICATIONS**

3 credits.

Theory, design and analysis of mobile wireless communication systems from a signal processing perspective. Emphasis on code-division multiple-access (CDMA) systems employing direct-sequence spread-spectrum (DS-SS) signaling. Topics include characterization of mobile wireless channels, demodulation of DS-SS signals, diversity techniques, interference suppression methods, and low-complexity adaptive receivers. ECE 732 recommended

**Requisites:** ECE 437 or equiv ECE 730, or cons inst.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**E C E 738 – ADVANCED DIGITAL IMAGE PROCESSING**

3 credits.

Deterministic and stochastic spatio-temporal image models, transform domain processing, Markov random fields and anisotropic diffusion; MAP parameter estimation, ill-posed inverse problems, robust statistics and non-linear digital filtering in image processing. Applications to image restoration, motion estimation, (video) image compression (MPEG, JPEG) and tomography.

**Requisites:** ECE 533 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**E C E/M E 739 – ADVANCED ROBOTICS**

3 credits.

In-depth study of advanced robotics modeling and control. Topics include kinematics, motion planning, dynamics and control of serial chain robotic manipulators. Concepts are explored through a combination of theoretical and numerical modeling techniques.

**Requisites:** ME 446 or ECE 332 or equiv; MATH 320 or 340; Familiarity with high level computational programming language such as Matlab, or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E C E 740 – ELECTROMAGNETIC THEORY**

3 credits.

Time harmonic fields and waves in linear media with applications to radiation, guiding and scattering; wave and surface impedance and admittance concepts; duality, uniqueness, image theory, equivalence principle, induction and compensation theorems, reciprocity, Green's functions, wave functions, potential and transform theory.

**Requisites:** ECE 420 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 741 – SEMICONDUCTOR DIODE LASERS AND OTHER OPTOELECTRONIC DEVICES**

3 credits.

In the first part of the course this modern photonic technology will be overviewed, and key parameters and concepts will be introduced. In the second part, the basic mechanisms determining the relationship between optical gain and current density, as well as quantum-well laser structures will be treated. The third part will cover the physics of high-power phase-locked laser arrays or other optoelectronics devices.

**Requisites:** ECE 320, ECE 335 or equiv; PHYSICS 244 or 241, some basic electromagnetics optics**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**E C E 742 – COMPUTATIONAL METHODS IN ELECTROMAGNETICS**

3 credits.

Computational techniques for solving differential and integral equations that govern static, frequency-domain, and time-domain electromagnetic field phenomena. Applications of the finite-difference time-domain method, finite-element method, and method of moments to practical electromagnetics engineering problems.

**Requisites:** ECE 420 or equiv fluency in a high-level programming lang; Comp Sci 412 or equiv recommended**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**E C E 743 – HIGH-POWER DIODE LASERS AND AMPLIFIERS**

3 credits.

In the first part, the basics of single-mode diode lasers and amplifiers as well as their applications will be treated. The second part will include in-depth treatment of the four basic types of high-power coherent diodes: phase-locked arrays, master-oscillator power amplifiers, unstable resonators, and external-cavity-controlled resonators.

**Requisites:** ECE 320, ECE 335 or equiv; PHYSICS 244 or 241, some basic electromagnetics and optics**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**E C E 744 – THEORY OF MICROWAVE CIRCUITS AND DEVICES**

3 credits.

Scattering matrices; symmetrical junctions; impedance and ABCD matrices; equivalent circuits. Wave propagation in periodic structures and anisotropic media; Floquet's theorem; Brillouin diagrams; Hartree harmonics; tensor permeability, conductivity, and permittivity; coupled wave equations; normal modes; applications in ferrite devices.

**Requisites:** ECE 444 or ECE 740 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**E C E 745 – SOLID STATE ELECTRONICS**

3 credits.

Physical principles underlying the action of semiconductor devices, chemical bonding and energy band structure, Boltzmann transport theory, optical and high frequency effects, diffusion and drift, interfaces, properties of elemental and compound semiconductors.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**E C E/PHYSICS 746 – QUANTUM ELECTRONICS**

3 credits.

Elementary aspects of Lagrange theory of fields and field quantization; Bose, Fermi and Pauli operators; interaction of fields; quantum theory of damping and fluctuations; applications to lasers, nonlinear optics, and quantum optics.

**Requisites:** ECE-PHYSICS/E C E 546; PHYSICS 721 or ECE 740**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2011**E C E/PHYSICS 748 – LINEAR WAVES**

3 credits.

General considerations of linear wave phenomena; one dimensional waves; two and three dimensional waves; wave equations with constant coefficients; inhomogenous media; random media. Lagrangian and Hamiltonian formulations; asymptotic methods.

**Requisites:** ECE 440 or PHYSICS 322 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017



**E C E/N E/PHYSICS 749 – COHERENT GENERATION AND PARTICLE BEAMS**

3 credits.

Fundamental theory and recent advances in coherent radiation charged particle beam sources (microwave to X-ray wavelengths) including free electron lasers, wiggler/wave-particle dynamics, Cerenkov masers, gyrotrons, coherent gain and efficiency, spontaneous emission, beam sources and quality, related accelerator concepts experimental results and applications.

**Requisites:** ECE 740 or PHYSICS 721, or equiv, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**E C E/COMP SCI 750 – REAL-TIME COMPUTING SYSTEMS**

3 credits.

Introduction to the unique issues in the design and analysis of computer systems for real-time applications. Hardware and software support for guaranteeing timeliness with and without failures. Resource management, time-constrained communication, scheduling and imprecise computations, real-time kernels and case studies. Students are strongly encouraged to have knowledge of computer architecture (e.g., COMP SCI/E C E/COMP SCI 552) and operating system functions (e.g., COMP SCI 537)

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**E C E 751 – EMBEDDED COMPUTING SYSTEMS**

3 credits.

Embedded applications, embedded processors and multiprocessors, embedded system design and simulation, configurable/reconfigurable embedded systems, embedded compilers and tool chains, run-time systems, application design and customization, hardware and software co-design, low-power design.

**Requisites:** ECE 552**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E/COMP SCI 752 – ADVANCED COMPUTER ARCHITECTURE I**

3 credits.

Processor design, computer arithmetic, pipelining, multi-operation processors, vector processors, control units, precise interrupts, main memory, cache memories, instruction set design, stack machines, busses and I/O, protection and security. Students are strongly encouraged to have knowledge of computer architecture (e.g., COMP SCI/E C E/COMP SCI 552).

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E 753 – FAULT-TOLERANT COMPUTING**

3 credits.

Fault modeling, redundancy techniques and reliability evaluation, error detecting and correcting codes, self-checking circuits, fault diagnosis, software fault tolerance, and case studies.

**Requisites:** ECE/Comp Sci 552, Math/STAT/MATH 431 or equiv, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**E C E/COMP SCI 755 – VLSI SYSTEMS DESIGN**

3 credits.

Overview of MOS devices and circuits; introduction to integrated circuit fabrication; topological design of data flow and control; interactive graphics layout; circuit simulation; system timing; organizational and architectural considerations; alternative implementation approaches; design project. E C E 555 or equivalent experience is strongly recommended.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**E C E/COMP SCI 756 – COMPUTER-AIDED DESIGN FOR VLSI**

3 credits.

Broad introduction to computer-aided design tools for VLSI, emphasizing implementation algorithms and data structures. Topics covered: design styles, layout editors, symbolic compaction, module generators, placement and routing, automatic synthesis, design-rule checking, circuit extraction, simulation and verification. Students are strongly encouraged to have programming skills and to have taken a course in Digital System Fundamentals such as E C E/COMP SCI 352.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E/COMP SCI 757 – ADVANCED COMPUTER ARCHITECTURE II**

3 credits.

Parallel algorithms, principles of parallelism detection and vectorizing compilers, interconnection networks, SIMD/MIMD machines, processor synchronization, data coherence, multis, dataflow machines, special purpose processors. Students are strongly encouraged to have knowledge of computer architecture (e.g., COMP SCI/E C E/COMP SCI 552).

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017



**E C E/COMP SCI/E M A/E P/M E 759 – HIGH PERFORMANCE COMPUTING FOR APPLICATIONS IN ENGINEERING**

3 credits.

An overview of hardware and software solutions that enable the use of advanced computing in tackling computationally intensive Engineering problems. Hands-on learning promoted through programming assignments that leverage emerging hardware architectures and use parallel computing programming languages. Students are strongly encouraged to have completed COMP SCI 367 or COMP SCI 400 or to have equivalent experience.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E/COMP SCI 761 – MATHEMATICAL FOUNDATIONS OF MACHINE LEARNING**

3 credits.

Mathematical foundations of machine learning theory and algorithms. Probabilistic, algebraic, and geometric models and representations of data, mathematical analysis of state-of-the-art learning algorithms and optimization methods, and applications of machine learning. Students should have taken a course in statistics and a course in linear algebra (e.g., STAT 302 and MATH 341).

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**E C E/B M E 762 – BIOMEDICAL INSTRUMENTATION**

3 credits.

Design and application of specialized biomedical instrumentation. Information retrieval techniques. Lab.

**Requisites:** ECE 462 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2011**E C E/B M E 763 – PROJECTS IN COMPUTERS IN MEDICINE**

3 credits.

Applications of digital computers to the solution of problems in clinical and research medicine. Hardware and software student projects.

**Requisites:** ECE 463**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2010**E C E/CBE/MATH 777 – NONLINEAR DYNAMICS, BIFURCATIONS AND CHAOS**

3 credits.

Advanced interdisciplinary introduction to qualitative and geometric methods for dissipative nonlinear dynamical systems. Local bifurcations of ordinary differential equations and maps. Chaotic attractors, horseshoes and detection of chaos.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**E C E 790 – MASTER'S RESEARCH OR THESIS**

1-9 credits.

**Requisites:** Grad st, for Master's candidates only**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E C E 817 – NONLINEAR SYSTEMS**

3 credits.

Modelling nonlinear systems, linearization, equilibria, solution concepts, phase plane analysis, stability concepts, Lyapunov methods, oscillations, vector space methods, control system nonlinearities and design. Selected topics from the following: input-output methods, switching and variable structure systems, feedback linearization, and Lyapunov robustness.

**Requisites:** ECE 717 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**E C E 821 – OPTIMAL CONTROL AND VARIATIONAL METHODS**

3 credits.

Variational methods in optimal control, functional analytic and vector space tools, time-optimal control and reachable sets, the Pontryagin Maximum Principle, linear quadratic regulators, stability of optimized systems, introduction to H-infinity control.

**Requisites:** ECE 717 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2013

**E C E 830 – ESTIMATION AND DECISION THEORY**

3 credits.

Estimation and decision theory applied to random processes and signals in noise: Bayesian, maximum likelihood, and least squares estimation; the Kalman filter; maximum likelihood and maximum a posteriori detection; adaptive receivers for channels with unknown parameters or dispersive, fading characteristics; the RAKE receiver; detection systems with learning features.

**Requisites:** ECE 730 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**E C E 841 – ELECTROMAGNETIC RADIATION AND TRANSMISSION**

3 credits.

Applications of Maxwell's field equations to radiation problems; transmission of radio waves; radiation and impedance characteristics of various antennas and arrays. Analysis of complete antenna systems.

**Requisites:** ECE 440 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**E C E/MATH 842 – TOPICS IN APPLIED ALGEBRA**

3 credits.

Applied topics with emphasis on algebraic constructions and structures. Examples include: algebraic coding theory; codes (algebraic-geometric, convolutional, low-density-parity-check, space-time); curve and lattice based cryptography; watermarking; computer vision (face recognition, multiview geometry).

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E C E 845 – TRANSPORT IN SEMICONDUCTOR DEVICES**

3 credits.

Transport of carriers in electronic devices, starting from the Boltzmann equation and the quantum mechanical treatment of scattering, and covering applications to devices; transport in 2D structures; modeling of transport; experiments and devices involving hot electrons.

**Requisites:** ECE 745**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**E C E/PHYSICS 848 – NONLINEAR WAVES**

3 credits.

General considerations of nonlinear wave phenomena; nonlinear hyperbolic waves; nonlinear dispersion; nonlinear geometrical optics; Whitham's variational theory; nonlinear and parametric instabilities; solitary waves; inverse scattering method.

**Requisites:** ECE 748 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**E C E/COMP SCI 861 – THEORETICAL FOUNDATIONS OF MACHINE LEARNING**

3 credits.

Advanced mathematical theory and methods of machine learning. Statistical learning theory, Vapnik-Chevronenkis Theory, model selection, high-dimensional models, nonparametric methods, probabilistic analysis, optimization, learning paradigms.

**Requisites:** COMP SCI/E C E/COMP SCI 761 or E C E 830**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**E C E 890 – PRE-DISSERTATOR'S RESEARCH**

1-9 credits.

**Requisites:** Grad st, for post-master's, pre-dissertator stdts only**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E C E 901 – SPECIAL TOPICS IN ELECTRICAL AND COMPUTER ENGINEERING**

1-3 credits.

Special advanced topics across Electrical and Computer Engineering. The topics covered, instructors, and prerequisites all vary with semester and with section. Particular topics typically reflect state-of-the-art ideas and research.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E C E/N E/PHYSICS 922 – SEMINAR IN PLASMA PHYSICS**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**E C E 990 – RESEARCH OR THESIS**

1-12 credits.

**Requisites:** Dissertator status**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E C E 999 – ADVANCED INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**EMERGENCY MEDICINE (EMER MED)****EMER MED 699 – INDEPENDENT STUDY**

1-3 credits.

This directed study in emergency medicine will offer students majoring in related fields an opportunity to participate in basic emergency medicine research. This course will assist in the preparation for graduate or medical school coursework.

**Requisites:** Consent of instructor**Repeatable for Credit:** No**EMER MED 911 – INTRODUCTION TO PREHOSPITAL MEDICINE AND DETERMINANTS OF UTILIZATION OF THE PREHOSPITAL SYSTEM**

2 credits.

Provides a unique opportunity for fourth year medical students to gain experience in the prehospital system while utilizing their public health knowledge to determine factors that lead to patient utilization of this system. During this course, students will gain understanding of the prehospital system through first-hand experience with prehospital providers while appreciating the environment in which their patients live and work. Students will be asked to observe patient care, conduct posttransport interviews in the emergency department, and examine the social and environmental determinants that led to activation of the prehospital system.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**EMER MED 958 – INTRODUCTION TO BEDSIDE ULTRASOUND ELECTIVE**

2 credits.

The elective will focus on learning and practicing skills in clinical ultrasound (US) in the Emergency Department setting. Students will receive teaching in core clinical US skills including evaluation of the aorta, ECHO, gallbladder, renal, IVC, female pelvis, FAST, DVT, ocular, and lung exams. Students will then complete hands-on scanning with ultrasound-trained faculty focusing on the above areas of expertise. Students will also complete an image review for the scans they performed without faculty supervision, which will ensure students are acquiring and interpreting scans correctly. Students will be assessed both in image acquisition/interpretation for hands-on scanning and by online quizzes to demonstrate understanding of core didactic content. Students will be expected to complete 100 scans for successful completion of the rotation. This elective will be open to all students interested in clinical ultrasound and not exclusively those interested in the field of Emergency Medicine. One student per two-week period.

**Requisites:** Declared in medical program with 4th year standing and EMER MED 961**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**EMER MED 959 – EMERGENCY MEDICINE REGIONAL SITE**

2-4 credits.

This course will provide students with an introduction to patient care in the emergency setting. The goals while on this rotation will be to 1) Increase knowledge and understanding of the role of Emergency Medicine in the broader healthcare system; and 2) Become familiar with the initial evaluation, assessment and stabilization of patients who present with urgent and emergent medical and traumatic conditions.

**Requisites:** SURGERY 812 or MEDICINE 812**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**EMER MED 960 – EMERGENCY MEDICINE ELECTIVE - BASIC**

2 credits.

The Clerkship's emphasis is on learning and gaining clinical experience in the acute care setting. Students will be expected to evaluate and care for patients primarily with the guidance and supervision of the Emergency Medicine Attending or Senior Resident. You will "staff" all of your patients with the Attending, and will have the opportunity to perform various procedures with their assistance. The didactic structure of the rotation includes a suture lab, assigned reading materials, and the University of Wisconsin Emergency Medicine Residency Conference series. In addition, during certain months, students may participate in the simulation curriculum (2 hours weekly) alongside the Advanced Emergency Medicine rotators. Exceptions to this prerequisite will be considered on a case-by-case basis by the Emergency Medicine Clerkship Director

**Requisites:** Third year students must have completed the first six months of the medical school third year.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017

**EMER MED 961 – EMERGENCY MEDICINE ELECTIVE - ADVANCED**  
4 credits.

This Clerkship's emphasis is on building clinical expertise and gaining experience in the acute care setting. Students will be expected to evaluate and care for patients primarily with the guidance and supervision of the Emergency Medicine Attending or Senior Resident. You will "staff" all of your patients with the Attending or Senior EM Resident, and will have the opportunity to perform procedures on your patients, with expert supervision. The didactic structure of the rotation centers on a weekly simulation curriculum. Other learning venues include suture lab, assigned reading materials, and the University of Wisconsin Emergency Medicine Residency Conference series. Upon making a formal request, all students interested in pursuing a residency in Emergency Medicine can expect to acquire a UW Departmental Standardized Letter of Evaluation (SLOE) after completing this rotation. Exceptions to this prerequisite will be consider on a case-by-case basis by Clerkship Director

**Requisites:** Fourth year medical student class standing.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**EMER MED 998 – INDEPENDENT STUDY**  
1-8 credits.

Offers MD students interested in emergency medicine, an opportunity to participate in advanced and translation research. This course will expand basic research knowledge and expose MD students to current advanced research.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

## ENGINEERING MECHANICS AND ASTRONAUTICS (E M A)

**E M A 1 – COOPERATIVE EDUCATION PROGRAM**  
1 credit.

Work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career in industry.

**Requisites:** So st

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**E M A 110 – INTRODUCTION TO PRIVATE PILOT**  
4 credits.

The first course of a two-course series to earn a private pilot's license. This first course will teach students all of the ground- school subjects necessary to become a private pilot. Lecture topics include aircraft structure, mechanical systems, flight instruments and avionics, aerodynamics, aircraft performance, aviation meteorology, airport operations, navigation, aeromedical factors, rules and regulations. In-class discussion will center around PC-based simulation scenarios that feature classroom demonstrations of the theory taught online. Students will be charged flight fees for this course. Flight fees may vary, dependent on skill of student and instructor fees. See the class notes for information about fees.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E M A 201 – STATICS**  
3 credits.

Principles of mechanics, force systems, equilibrium, structures, distributed forces, moments of inertia of areas, and friction. Open to Freshmen

**Requisites:** MATH 222 or concurrent registration.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E M A 202 – DYNAMICS**  
3 credits.

Kinematics, force-mass-acceleration relations, work and energy, impulse and momentum, moments of inertia and mass.

**Requisites:** EMA 201 or 214; and MATH 222; or consent of instructor

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E M A 291 – PROJECTS IN ENGINEERING MECHANICS & ASTRONAUTICS**  
1-3 credits.

Individual engineering projects under staff supervision.

**Requisites:** Consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**E M A 303 – MECHANICS OF MATERIALS**

3 credits.

Stress and strain, torsion, bending of beams, shearing stresses in beams, compound stresses, principal stresses, deflections of beams, statically indeterminate members, columns. For civil engineers.

**Requisites:** EMA 201 MATH 222**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E M A/M E 307 – MECHANICS OF MATERIALS LAB**

1 credit.

Data processing, tension/compression tests, creep stress concentrations, fatigue, fracture, composite materials, combined stress, beam flexure, dynamic loads, buckling.

**Requisites:** ME 306 or concurrent registration**Repeatable for Credit:** No**Last Taught:** Fall 2017**E M A/CIV ENGR 395 – MATERIALS FOR CONSTRUCTED FACILITIES**

3 credits.

Properties and tests of materials used in the initial construction or repair of facilities (including buildings, transportation systems, utility systems, and reinforced earth). Introduction to laboratory and field measurement techniques to assess material performance capabilities. Technical report preparation.

**Requisites:** EMA 303 307**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**E M A 405 – PRACTICUM IN FINITE ELEMENTS**

3 credits.

Use of finite elements (FE) for solving practical problems in mechanics. Elementary theory of FE is discussed. A commercial computer program is used for applications. Major emphasis is on behavior of FE, modeling, and evaluation of results for correctness.

**Requisites:** EMA 214, 303, 304, or 306; EMA 202 or 221; knowledge of elementary matrix algebra or consent of instructor**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E M A/CBE/CHEM/M E 425 – UNDERGRADUATE RHEOLOGY SEMINAR**

1 credit.

Rheology seminar course encouraged for all interested in professions related to polymers, suspensions or rheology; will not count toward credit requirement of the major.

**Requisites:** Junior standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**E M A 469 – DESIGN PROBLEMS IN ENGINEERING**

3 credits.

The design philosophy is presented. Students will be required to apply their knowledge of elementary mechanics, engineering and basic science to arrive at acceptable solutions to a variety of design problems.

**Requisites:** EMA 221, 307; ECE 376; ME 363, 361; MSE 350; or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**E M A/E P 471 – INTERMEDIATE PROBLEM SOLVING FOR ENGINEERS**

3 credits.

Use of computational tools for the solution of problems encountered in engineering physics applications. Topics covered include orbital mechanics, structural vibrations, beam and plate deformations, heat transfer, neutron diffusion, and criticality. Emphasis will be on modeling, choice of appropriate algorithms, and model validation.

**Requisites:** MATH 319 NEEP 271 or Comp Sci 310**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E M A/E P 476 – INTRODUCTION TO SCIENTIFIC COMPUTING FOR ENGINEERING PHYSICS**

3 credits.

Basic tools of professional scientific computation for UNIX environments are taught. Programming skills in a compiled language are developed through engineering examples. Applications reinforce engineering problem-solving skills first examined in introductory courses, while motivating progressively more advanced computational methods.

**Requisites:** NEEP 271 or Comp Sci 310; Comp Sci 412 or equivalent; MATH 319; or consent of instructor**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016

**E M A 489 – HONORS IN RESEARCH**

1-3 credits.

Undergraduate research and senior honors thesis in engineering mechanics and astronautics.

**Requisites:** Honors candidacy in engineering mechanics

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2009

**E M A 506 – ADVANCED MECHANICS OF MATERIALS I**

3 credits.

Analysis and design of load-carrying members, shear center, unsymmetrical bending, curved beams, beams on elastic foundations, energy methods, theories of failure, thick-walled cylinders, stress concentrations, design to prevent failure by excessive elastic deformation, plastic deformation and fracture.

**Requisites:** EMA 214, 304, or 306/307

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E M A/CIV ENGR./M E 508 – COMPOSITE MATERIALS**

3 credits.

Physical properties and mechanical behavior of polymer, metal, ceramic, cementitious, cellulosic and biological composite systems; micro- and macro-mechanics; lamination and strength analyses; static and transient loading; fabrication; recycling; design; analytical-experimental correlation; applications.

**Requisites:** M E 444 or M E/EMA 570 or EMA 506 or graduate standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**E M A 519 – FRACTURE MECHANICS**

3 credits.

Introduction to the mechanics of fracture of linear and nonlinear materials. Crack stress and deformation fields; stress intensity factors; crack tip plastic zone; fracture toughness testing; energy release rate; J-integral. Criteria for crack growth initiation/stability; application to design.

**Requisites:** EMA 214, 304, or 306/307

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E M A 521 – AERODYNAMICS**

3 credits.

Potential flow theory; stream functions; vortex filaments and sheets. Two- and three-dimensional wing theory. Doublet and panels methods. Propeller theory.

**Requisites:** EMA 202; CEE 310 or ME 363; MATH 234; or consent of instructor

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E M A 522 – AERODYNAMICS LAB**

3 credits.

Teams of two or three students perform case study of a wing using computer simulations and lab experiments. Experimental and computational results are compared against theoretical predictions developed in prerequisite class. Results are presented in three oral and three written reports.

**Requisites:** EMA 521

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E M A 523 – FLIGHT DYNAMICS AND CONTROL**

3 credits.

Aircraft longitudinal and lateral static stability. Aircraft equations of motion. Stability derivatives. Longitudinal and lateral dynamic stability of uncontrolled motion. Open-loop aircraft control. Closed-loop aircraft control.

**Requisites:** EMA 521 542

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E M A/M E 540 – EXPERIMENTAL VIBRATION AND DYNAMIC SYSTEM ANALYSIS**

3 credits.

Application of digital data acquisition to the investigation of mechanical components, structures and systems using time histories, transforms and response functions to characterize free, forced and transient inputs. Introduction to sensors, instrumentation and methods appropriate for dynamic system response.

**Requisites:** ME 340 or ME 440 or EMA 545 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**E M A/M S & E 541 – HETEROGENEOUS AND MULTIPHASE MATERIALS**

3 credits.

Principles of the mechanics of solid multiphase systems. Role of heterogeneity and anisotropy in determining physical properties including elastic, dielectric and piezoelectric properties. Applications in lightweight structures, ultrastrong materials, materials for protection of the body, and materials for the replacement of human tissues. Materials with fibrous, lamellar, particular, and cellular structures. Heterogeneous materials of biological origin. Biomimetic and bio-inspired materials.

**Requisites:** EMA 303 or ME 306 or MSE 441 or equivalent**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**E M A 542 – ADVANCED DYNAMICS**

3 credits.

Kinematics and kinetics of plane and three-dimensional motion, Coriolis acceleration, general methods of linear and angular momentum, central force motion, gyrokinematics, generalized coordinates. Lagrange's equations.

**Requisites:** EMA 202 or 221; EMA 307; Math 223; or consent of instructor**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E M A 545 – MECHANICAL VIBRATIONS**

3 credits.

General theory of free, forced, and transient vibrations; vibration transmission, isolation, and measurement; normal modes and generalized coordinates; method of matrix equation formulation and solution. The application of theory and methods to the analysis, measurement and design of dynamic systems.

**Requisites:** EMA 202 or 221; EMA 307; Math 223; or consent of instructor**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E M A/E P 547 – ENGINEERING ANALYSIS I**

3 credits.

Methods of higher mathematics; stress on problem solving rather than rigorous proofs; linear algebra, calculus of variations, Green's function.

**Requisites:** A year of advanced calculus such as MATH 321 322**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E M A/E P 548 – ENGINEERING ANALYSIS II**

3 credits.

Function of complex variable, series solution of different equations, partial differential equations.

**Requisites:** A year of math beyond calculus**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E M A/ASTRON 550 – ASTRODYNAMICS**

3 credits.

Coordinate system transformations, central force motion, two body problem, three and n-body problem, theory of orbital perturbations, artificial satellites, elementary transfer orbits, and elementary rocket dynamics.

**Requisites:** EMA 202 or 221; or PHYSICS 311 or con reg; or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E M A 569 – SENIOR DESIGN PROJECT**

3 credits.

Students will select specific engineering design projects. These projects will be student team efforts supervised by individual faculty members.

**Requisites:** EMA 469, any two of EMA 542, 545, 506; or consent of instructor**Repeatable for Credit:** No**Last Taught:** Spring 2017**E M A/M E 570 – EXPERIMENTAL MECHANICS**

3 credits.

Experimental methods for design and analysis of mechanical components, structures and materials. Electrically and optically recorded stress, strain and deformation data; computer acquisition/reduction/presentation techniques; applications to static and transient events, sensors, transducer design, NDT, fracture and residual stresses.

**Requisites:** ME 306 or EMA 214 or 303 or 304 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**E M A 599 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**E M A 601 – SPECIAL TOPICS IN ENGINEERING MECHANICS**

1-3 credits.

Selected topics in such areas as structural mechanics, dynamics, experimental mechanics, vibrations, engineering materials, soil mechanics, engineering analysis, rheology, etc.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**E M A 605 – INTRODUCTION TO FINITE ELEMENTS**

3 credits.

A first course in finite elements, with theory and applications in stress analysis and in areas related to structural mechanics. Practice in the use and/or development of computer programs.

**Requisites:** Graduate or professional standing or E M A 303 or (M E 306 and MATH 320) or (M E 306 and MATH 340)

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E M A 610 – STRUCTURAL FINITE ELEMENT MODEL VALIDATION**

3 credits.

An introduction to test-based validation of finite element models for the design and analysis of dynamic structures.

**Requisites:** Graduate standing or E M A 405, E M A 545 or M E 440

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E M A 611 – ADVANCED MECHANICAL TESTING OF MATERIALS**

3 credits.

Theory and use of servo-controlled, electro-hydraulic equipment for research of mechanical properties of engineering materials. Measurement of stress, strain, hysteresis energy, and material properties during deformation and at fracture. Analysis of four significant components of total strain.

**Requisites:** Graduate standing or E M A/M E/E M A 307 and (E M A 506 or concurrent enrollment)

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E M A/E P 615 – MICRO- AND NANOSCALE MECHANICS**

3 credits.

An introduction to micro- and nanoscale science and engineering with a focus on the role of mechanics. A variety of micro- and nanoscale phenomena and applications covered, drawing connections to both established and new mechanics approaches.

**Requisites:** Graduate or professional standing or (E M A 303 and M E 306)

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**E M A 622 – MECHANICS OF CONTINUA**

3 credits.

Tensor analysis; analysis of stress, strain and rate of strain; application of Newtonian mechanics to deformable media; mechanical constitutive equations; field equations of fluid mechanics and elasticity.

**Requisites:** Graduate or professional standing or ((MATH 340 or MATH 320) and MATH 321)

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E M A 630 – VISCOELASTIC SOLIDS**

3 credits.

Linear theory of viscoelasticity; non-aging materials; Boltzmann superposition principle; time-temperature superposition boundary value problems. Applications: vibration damping, relaxation of stress, creep, droop, and sag in structural members, sound absorption, creep buckling, settlement of foundations, tire mechanics, and shock attenuation.

**Requisites:** Graduate standing or E M A 506 or E M A 303

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E M A 642 – SATELLITE DYNAMICS**

3 credits.

Review of Euler's equations, torque-free motion, stability of rotation, energy dissipation effects, gyroscopic instruments, gyrodynamic of the Earth, gravity gradient stabilized satellites, spin stabilized satellites, dual spin satellites, tethered satellites, mass movement techniques, space vehicle motion and rocket dynamics.

**Requisites:** Graduate or professional standing or E M A 542

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E M A 690 – MASTER'S RESEARCH**

1-9 credits.

**Requisites:** Consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E M A 700 – THEORY OF ELASTICITY**

3 credits.

Equations of elasticity in curvilinear and rectangular coordinates; two dimensional problems; problems of prismatic bars; variational methods and energy principles; complex variable and numerical methods; thermal stress problems.

**Requisites:** EMA 506 MATH 321 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**E M A 702 – GRADUATE COOPERATIVE EDUCATION PROGRAM**

1-2 credits.

Work experience that combines classroom theory with practical knowledge of operations to provide students with a background on which to develop and enhance a professional career. The work experience is tailored for MS students from within the U.S. as well as eligible international students.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**E M A 703 – LINEAR VISCOELASTICITY AND PLASTICITY**

3 credits.

Linear theory of solid and fluid viscoelasticity. Solution of problems by transform techniques. Wave propagation. Thermoviscoelasticity. Yield criteria. Plastic stress-strain relations. Solution of problems for the perfectly plastic material and the elastoplastic material.

**Requisites:** EMA 622 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**E M A 705 – ADVANCED TOPICS IN FINITE ELEMENTS**

3 credits.

Finite element methods for problems with linear and nonlinear media. Stress analysis, heat transfer, and fluid dynamics. Vibration and transient analysis. Weighted residual methods. Material and geometric nonlinearity. Nonlinear iteration methods. Instructor may also select additional material.

**Requisites:** EMA 605**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**E M A/M E 706 – PLATES, SHELLS AND PRESSURE VESSELS**

3 credits.

Stress and deflection analysis of structural plates and membranes under mechanical and thermal loads; variational and numerical methods; instability and vibrations; membrane shell theory; cylindrical shells; pressure vessel and piping design applications; ASME Pressure Vessel Code.

**Requisites:** ME 444 or EMA 506 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**E M A/M E 708 – ADVANCED COMPOSITE MATERIALS**

3 credits.

Contemporary topics such as new materials; smart materials/structures/systems; fatigue; fracture; experimental techniques; nondestructive evaluation; transient, micro, three-dimensional, nonlinear, inelastic and environmental effects; manufacturing methods: repair and applications.

**Requisites:** ME/EMA 508 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**E M A 719 – ADVANCED FRACTURE MECHANICS**

3 credits.

Rigorous, systematic development of principal concepts and theories of modern fracture mechanics. Topics include stress and deformation fields for stationary and growing cracks in linear elastic, nonlinear elastic, elastic-plastic and viscoelastic materials; J-integral theory and applications; criteria for crack growth, stability and fracture.

**Requisites:** EMA 519 622, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 1998**E M A/M E 722 – INTRODUCTION TO POLYMER RHEOLOGY**

3 credits.

Formulation of constitutive equations using embedded base vectors. Viscosity, normal stress differences, stress relaxation, elastic recoil. Polymer rheology; homogeneous strain history.

**Requisites:** MATH 320 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2012

**E M A 742 – THEORY AND APPLICATIONS IN ADVANCED DYNAMICS**  
3 credits.

Dynamical systems theory, advanced rigid body attitude dynamics, Lagrange's equations of motion, conservation laws, quasi-coordinates, Routh's method for ignorable coordinates, Hamilton's equations of motion, dynamic stability, Liapunov stability methods, angular momentum methods for systems of rigid bodies, modeling of rotating elastic systems, Kane's equations of motion, deterministic chaos.

**Requisites:** EMA 542 or PHYSICS 311 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**E M A 745 – ADVANCED METHODS IN STRUCTURAL DYNAMICS**  
3 credits.

Emphasis is placed on techniques used to analyze aerospace structures. Variational principles, Hamilton's extended principle, Lagrange's equations, mathematical models for continuous systems, natural modes of vibrations, dynamic response using mode superposition, mode acceleration, residual flexibility, vibration analysis using finite element methods, advanced substructure representations, component mode synthesis, systems with rigid body modes for aeronautical and astronautical systems.

**Requisites:** EMA 545, EMA 405 or equiv or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**E M A 747 – NONLINEAR AND RANDOM MECHANICAL VIBRATIONS**  
3 credits.

Exact solutions and sectorial linearization; free and forced vibration of mechanical systems with nonlinear restoring force; self-excited mechanical vibrations and relaxation vibrations; subharmonic responses; nonlinear vibration of mechanical systems with more than one degree of freedom; nonlinear vibration of bounded continuous media; random excitation and random response, random vibrations of mechanical systems and structures; random vibrations of nonlinear mechanical systems; failure of materials under random vibrations.

**Requisites:** EMA 745

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E M A/COMP SCI/E C E/E P/M E 759 – HIGH PERFORMANCE COMPUTING FOR APPLICATIONS IN ENGINEERING**  
3 credits.

An overview of hardware and software solutions that enable the use of advanced computing in tackling computationally intensive Engineering problems. Hands-on learning promoted through programming assignments that leverage emerging hardware architectures and use parallel computing programming languages. Students are strongly encourage to have completed COMP SCI 367 or COMP SCI 400 or to have equivalent experience.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E M A 790 – MASTER'S RESEARCH AND THESIS**  
1-9 credits.

For Master's candidates only

**Requisites:** Grad st.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**E M A/M E 825 – MOLECULAR NETWORK THEORIES FOR POLYMERIC MATERIALS**  
3 credits.

Stress-strain-birefringence relations for rubber-like solid derived from "Gaussian" network model. Birefringence theory from Maxwell's equations. Temporary-junction networks: constitutive equations for concentrated polymer solutions and molten polymers.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**E M A 890 – PRE-DISSERTATOR RESEARCH**  
1-9 credits.

For pre-dissertator stdts only

**Requisites:** Grad st.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**E M A/CBE/CHEM/M E 925 – RHEOLOGY RESEARCH SEMINAR**  
1 credit.

Exploration of the most recent research literature on viscoelasticity, constitutive equations, non-Newtonian flow systems, fluid metering devices, kinetic theory of macromolecules, and rheooptical phenomena. Periodic reports on recent advances made by research workers in the various rheology groups on the Madison campus.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2011

**E M A 990 – RESEARCH AND THESIS**

1-12 credits.

**Requisites:** Dissertator status**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ENGINEERING PHYSICS (E P)****E P 271 – ENGINEERING PROBLEM SOLVING I**

3 credits.

Solution of engineering problems using commercially-available software tools (spreadsheets, symbolic manipulators, and equation solvers). The emphasis will be on nuclear engineering problems, including radioactive decay, nuclear cross sections, scattering, and criticality.

**Requisites:** MATH 222, PHYSICS 201**Repeatable for Credit:** No**Last Taught:** Fall 2017**E P 272 – ENGINEERING PROBLEM SOLVING USING MAPLE**

1 credit.

An introduction to multi-step engineering problem solving using Maple (symbolic mathematics) software.

**Requisites:** MATH 222**Repeatable for Credit:** No**E P 468 – INTRODUCTION TO ENGINEERING RESEARCH**

1 credit.

An introduction to the conduct of engineering research: the scientific method, ethics in research, documentation and treatment of research data, publication practices, and the structure of the broader research community are covered.

**Requisites:** Open to EP majors only**Course Designation:** Honors - Accelerated Honors (!)**Repeatable for Credit:** No**Last Taught:** Fall 2017**E P 469 – RESEARCH PROPOSAL IN ENGINEERING PHYSICS**

1 credit.

An introduction to current research topics in engineering physics. Development of an undergraduate research proposal supervised by faculty members. Open to EP majors only

**Requisites:** EP 468.**Course Designation:** Honors - Accelerated Honors (!)**Repeatable for Credit:** No**Last Taught:** Fall 2017**E P/E M A 471 – INTERMEDIATE PROBLEM SOLVING FOR ENGINEERS**

3 credits.

Use of computational tools for the solution of problems encountered in engineering physics applications. Topics covered include orbital mechanics, structural vibrations, beam and plate deformations, heat transfer, neutron diffusion, and criticality. Emphasis will be on modeling, choice of appropriate algorithms, and model validation.

**Requisites:** MATH 319 NEEP 271 or Comp Sci 310**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E P/E M A 476 – INTRODUCTION TO SCIENTIFIC COMPUTING FOR ENGINEERING PHYSICS**

3 credits.

Basic tools of professional scientific computation for UNIX environments are taught. Programming skills in a compiled language are developed through engineering examples. Applications reinforce engineering problem-solving skills first examined in introductory courses, while motivating progressively more advanced computational methods.

**Requisites:** NEEP 271 or Comp Sci 310; Comp Sci 412 or equivalent; MATH 319; or consent of instructor**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**E P/E M A 547 – ENGINEERING ANALYSIS I**

3 credits.

Methods of higher mathematics; stress on problem solving rather than rigorous proofs; linear algebra, calculus of variations, Green's function.

**Requisites:** A year of advanced calculus such as MATH 321 322**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**E P/E M A 548 – ENGINEERING ANALYSIS II**

3 credits.

Function of complex variable, series solution of different equations, partial differential equations.

**Requisites:** A year of math beyond calculus**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017



**E P/M E 566 – CRYOGENICS**

3 credits.

Applications of cryogenics, material properties at low temperatures, refrigeration and liquifaction systems, measurement techniques, insulation, storage and transfer of cryogenics, safety and handling.

**Requisites:** ME 361 or PHYSICS 415, ChE 320 or ME 364**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**E P 568 – RESEARCH PRACTICUM IN ENGINEERING PHYSICS I**

3 credits.

Undergraduate research projects supervised by faculty members.

**Requisites:** Consent of instructor**Course Designation:** Honors - Accelerated Honors (!)**Repeatable for Credit:** No**Last Taught:** Fall 2017**E P 569 – RESEARCH PRACTICUM IN ENGINEERING PHYSICS II**

3 credits.

Undergraduate research projects supervised by faculty members. Senior thesis.

**Requisites:** Consent of instructor**Course Designation:** Honors - Accelerated Honors (!)**Repeatable for Credit:** No**Last Taught:** Fall 2017**E P 602 – SPECIAL TOPICS IN ENGINEERING PHYSICS**

1-3 credits.

Subject matter, credits and prerequisites vary.

**Requisites:** Vary**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E P/E M A 615 – MICRO- AND NANOSCALE MECHANICS**

3 credits.

An introduction to micro- and nanoscale science and engineering with a focus on the role of mechanics. A variety of micro- and nanoscale phenomena and applications covered, drawing connections to both established and new mechanics approaches.

**Requisites:** Graduate or professional standing or (E M A 303 and M E 306)**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2012**E P/COMP SCI/E C E/E M A/M E 759 – HIGH PERFORMANCE COMPUTING FOR APPLICATIONS IN ENGINEERING**

3 credits.

An overview of hardware and software solutions that enable the use of advanced computing in tackling computationally intensive Engineering problems. Hands-on learning promoted through programming assignments that leverage emerging hardware architectures and use parallel computing programming languages. Students are strongly encourage to have completed COMP SCI 367 or COMP SCI 400 or to have equivalent experience.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**E P/M E 777 – VACUUM TECHNOLOGY**

3 credits.

Topics defining modern vacuum technology, including the kinetic theory of gases, conductance, pumping systems, pump technologies, pressure measurement, gas-surface interactions, sealing technologies, leak detection, and residual gas analysis will be addressed through a combination of lectures, laboratory activities, problem solving, and group discussions.

**Requisites:** Must have taken Mechanical Engineering 363 and either Chemical Biological Engineering 320 or Biomedical Engineering 320.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**E P 920 – ENGINEERING PHYSICS GRADUATE SEMINAR**

1 credit.

Students will be able to enroll for credit more than once because the topics of the course will differ substantially from semester to semester. Our MS requirements permit up to 3 credits within the 30-credit minimum for the degree.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## ENGINEERING PROFESSIONAL DEVELOPMENT (E P D)

**E P D 151 – TECHNICAL INFORMATION RESOURCES**

1 credit.

Development of information retrieval skills and effective search strategies, focusing on technical information resources appropriate for engineers and scientists. Selection and use of electronic bibliographic databases, indexes and abstracts, patents and government information, library catalogs, and computer networks will be integral to individual and team projects.

**Requisites:** Open to Fr**Repeatable for Credit:** No**Last Taught:** Spring 2015



**E P D 155 – BASIC COMMUNICATION**

2 credits.

Emphasis on writing and critical reading. Planning, preparing, and revising informative and persuasive communication; adapting writing for intended audiences; grammar, usage and style; critical reading of prose models in the sciences and humanities; using information resources; videotaped oral presentations; collaborative writing using computers. Stdts may receive degree cr for only one Com A crse taken in residence

**Requisites:** Open to Fr.**Course Designation:** Gen Ed - Communication Part A

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**E P D 199 – FRESHMAN INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2011**E P D 265 – TEAMS AND THE ENGINEERING PROFESSION**

1 credit.

The communication strategies necessary for effective teamwork in engineering and science professions is the focus of this project-based course. Project options include international, ethical, and engineering business plan issues. Key communication elements are team structures, interpersonal skills, team theories, application, and evaluation.

**Requisites:** EPD 155 or other crse that satisfies Part A Communication Requirement or EPD 160 or cons inst**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**E P D 275 – TECHNICAL PRESENTATIONS**

2 credits.

This course focuses on the principles and theory of effective oral technical presentations and provides a framework for applying the principles in professional settings common to the engineering profession.

The course consists of five parts: 1) preparation, delivery, and evaluation of oral presentation on technical subjects, 2) analysis of professional "real-world" technical presentations, 3) survey of presentation technology, 4) self-analysis including listening and non-verbal skills, and 5) practice of group discussion and interview skills.

**Requisites:** So st**Repeatable for Credit:** No**Last Taught:** Fall 2017**E P D 299 – SOPHOMORE INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2011**E P D 305 – BASIC CHINESE FOR PROFESSIONALS I**

3 credits.

Fundamental elements of written and spoken communication in Chinese, primarily in a business context, supported by relevant cultural information.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2008**E P D/E ASIAN 330 – BASIC TECHNICAL JAPANESE I**

3 credits.

Introduces the three types of Japanese writing and most grammar necessary for reading technical writing in the sciences.

**Requisites:** Sr or Grad st**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**E P D/E ASIAN 332 – BASIC TECHNICAL JAPANESE II**

3 credits.

Completes the grammar necessary for reading technical writing in the sciences. Concludes with individual projects in specialized fields.

**Requisites:** EPD/E Asian 330**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**E P D 355 – INTERMEDIATE BUSINESS CHINESE FOR PROFESSIONALS I**

3 credits.

Professionals will learn the business vocabulary and the patterns of communication they will need in order to conduct business in a Chinese-language environment. Part one of a two-course sequence.

**Requisites:** EPD 306**Repeatable for Credit:** No**Last Taught:** Fall 2008**E P D 356 – INTERMEDIATE BUSINESS CHINESE FOR PROFESSIONALS II**

3 credits.

Professionals will learn the business vocabulary and the patterns of communication they will need in order to conduct business in a Chinese-language environment. Part two of a two-course sequence.

**Requisites:** EPD 355**Repeatable for Credit:** No**Last Taught:** Spring 2009**E P D/E ASIAN 374 – INTERMEDIATE TECHNICAL JAPANESE I**

3 credits.

Fundamentals of Japanese grammar and the most frequent 300 Kanji in the physical sciences; reading, comprehending and translating Japanese scientific texts. Does not satisfy LS language or major requirement

**Requisites:** E Asian 203 or cons inst.**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**EPD/E ASIAN 375 – INTERMEDIATE TECHNICAL JAPANESE II**

3 credits.

Continuation of 374; development of a Kanji frequency list and translation of a technical article. Does not satisfy LS language or major requirement

**Requisites:** EPD/E Asian 374 or cons inst.

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**EPD/E ASIAN 377 – BUSINESS JAPANESE COMMUNICATION**

3 credits.

Improvement of oral and written communication skills that are specific to business contexts. Review of essential grammar and honorific expressions for proper styles of communication. Development of the understanding of cultural and geographical factors that influence business practices in Japan.

**Requisites:** E Asian 203-204 or equiv prev lang training (consult instr)

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**EPD 378 – NETWORK SKILLS FOR REMOTE LEARNERS**

1 credit.

This course is designed to provide students with the knowledge, skills, and attitudes they need to be efficient and effective independent learners in a networked environment. The three primary modules for the course include: learning management, information management, and computer skills.

**Requisites:** Admission to Master of Engineering in Engineering Management or Master of Engineering in Engine Systems distance degree program or department consent

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

**EPD 395 – ELEMENTS OF COMPUTER-ASSISTED PUBLISHING**

3 credits.

This course focuses on concepts of the writing-to-publishing process and computer-assisted publishing. It integrates principles of technical writing and graphic design with the use of microcomputers. Laboratory work includes the design of a technical document.

**Requisites:** EPD 397 or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**EPD 397 – TECHNICAL COMMUNICATION**

3 credits.

Communication for engineering, science, and technology; theory and practice in planning, preparing, and critiquing reports, proposals, instructions, and business correspondence; research strategies, collaborative work; oral presentations.

**Requisites:** Junior standing

**Course Designation:** Gen Ed - Communication Part B

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**EPD 398 – TECHNICAL COMMUNICATIONS INTERNSHIP**

1 credit.

Two component course: 1) professional writing experience entailing approximately 80 hours internship with a local corporation, industry, government agency, or educational unit; and 2) one 50 minute class every other week to structure the internship and provide discussion of related issues.

**Requisites:** EPD 397; 6 cr in other communicatn crses or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**EPD 399 – JUNIOR INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2012

**EPD 416 – ENGINEERING APPLICATIONS OF STATISTICS**

3 credits.

Course provides knowledge and skills to apply statistics to many types of engineering problems. Focuses on developing statistically-based experimental techniques and tests for measures of validity, application of computer-based statistical tools, and approaches to distillation of data.

**Requisites:** Admission to Master of Engineering in Engineering Management distance degree program or department consent

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**EPD 470 – ENGINEERING PROBLEM SOLVING WITH COMPUTERS**

3 credits.

Develops computer-assisted skills necessary for solving complex engineering problems. Uses a series of case studies that develop techniques for solving linear and nonlinear algebraic systems, optimization problems, data approximation problems, and systems of ordinary differential equations.

**Requisites:** Admission to Master of Engineering in Engineering Management distance degree program or department consent

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**EPD 497 – TECHNICAL EDITING**

1 credit.

Principles and practices of editing technical and scientific documents. Overview of the editing process; defining the editor's rules and responsibilities, revising at structural and sentence levels, and addressing stylistic conventions of technical fields. Application to technical and scientific documents such as reports, proposals, and user manuals.

**Requisites:** EPD 397 or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**E P D 499 – SENIOR INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**E P D 518 – QUALITY ENGINEERING AND QUALITY MANAGEMENT**

3 credits.

The overall purpose of this course is to enhance the learners' basic business and decision-making skills related to quality systems and process improvement.

**Requisites:** Admission to Master of Engineering in Engineering Management distance degree program or department consent**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**E P D 597 – TECHNICAL AND PROFESSIONAL COMMUNICATION**

3 credits.

This course emphasizes essential concepts and strategies of effective written and oral communication. Topics include writing, documenting, and publishing individual and collaborative research and technical projects; managing communication aspects of technical projects; oral presentations, conference skills, theses and dissertations.

**Requisites:** Cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2009**E P D/E ASIAN 601 – JAPANESE FOR BUSINESS AND INDUSTRY**

3-4 credits.

Business language and commercial practices in contemporary Japanese society.

**Requisites:** EPD/E Asian 375 or E Asian 304 or consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E P D/E ASIAN 602 – JAPANESE FOR POLITICS AND GOVERNMENT**

3-4 credits.

Language and patterns of expression used in political discourse and policymaking in Japan.

**Requisites:** EPD/E Asian 375 or E Asian 304 or consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**E P D 603 – ADVANCED TECHNICAL JAPANESE SEMINAR**

3-4 credits.

Students will read an intermediate/advanced Japanese university textbook in the sciences and view videotaped lectures by Japanese university faculty members in parallel with the content of the textbook.

**Requisites:** EPD/E Asian 430 or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E P D 604 – RESEARCH IN JAPANESE TECHNICAL LITERATURE**

2-6 credits.

Graduate students in the sciences and engineering pursue individual projects to explore recent Japanese literature in their research fields.

**Requisites:** EPD 530 or EPD 603 or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**E P D 611 – ENGINEERING ECONOMICS AND MANAGEMENT**

3 credits.

This course addresses principles and practices of interpreting financial information and performing engineering-related economic analyses.

This course focuses on the practical use of economic information for decision-making. The four course modules are: 1) Basic Accounting Concepts; 2) Management Concepts; 3) Pricing and Product Decisions; and 4) Systems.

**Requisites:** Admission to Master of Engineering in Engineering Management distance degree program or department consent**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**E P D 612 – TECHNICAL PROJECT MANAGEMENT**

3 credits.

Learn key principles and tools of project management applicable to a broad range of engineering projects. The course covers techniques for project planning, scheduling, resource allocation, and project tracking, as well as the interface between projects and the organizations within which they are executed.

**Requisites:** Admission to Master of Engineering in Engineering Management distance degree program or department consent**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**E P D 613 – INTERNATIONAL ENGINEERING STRATEGIES AND OPERATIONS**

3 credits.

Provides a comparative examination and analysis of global trends and regional variations for engineering concepts, standards and practices. Using organizational case studies, the course will describe and analyze multi-national engineering operations and summarize best practices and caveats.

**Requisites:** Admission to Master of Engineering in Engineering Management distance degree program or department consent

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**E P D 615 – INDEPENDENT READING AND RESEARCH IN APPLIED ENGINEERING**

2 credits.

Conduct independent reading and research in an applied engineering topic of student's choice under the guidance of a UW faculty member or project mentor. Learn and use a variety of in-depth research techniques with assistance from Wendt Engineering Library. Employ a thorough understanding of genre conventions to craft an in-depth proposal, literature review, and technical presentation for distinct practitioner audiences. Present results of research at subsequent Master of Engineering in Engineering Management residency public session in late August.

**Requisites:** Declared in Master of Engineering in Professional Practice program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**E P D 617 – COMMUNICATING TECHNICAL INFORMATION**

3 credits.

Develops skills necessary for engineering professionals to communicate technical and managerial information. Covers approaches for communicating to diverse audiences and for action-oriented purposes. Emphasizes communication problem solving and communication efficiency. Includes individual and collaborative projects using oral, written, and electronic media.

**Requisites:** Admission to Master of Engineering in Engineering Management distance degree program or department consent

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E P D 618 – APPLIED LEADERSHIP AND MANAGEMENT OF ENGINEERING ORGANIZATIONS**

3 credits.

Addresses strategies, models, and practices for leading and managing engineering organizations in a context directly relevant to practicing engineers. Students will engage in self-reflection about styles, beliefs, and past experiences with leadership and management. Course project of direct relevance to student's organization will integrate theory, models, case studies, and real-time experiences from student's workplace. Students will gain broad exposure to diverse approaches to leadership and management, and a deeper understanding of how to put what is being learned into effective action.

**Requisites:** Admission to Master of Engineering in Engineering Management distance degree program or department consent

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E P D 622 – ENGINE DESIGN I**

2 credits.

The overall purpose of this course is to provide the learners with an understanding of engine applications, customer need assessment, and engineering product planning. S. in engr or equiv. EPD 621

**Requisites:** Admission to Master of Engineering in Engine System degree prgm B.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E P D 623 – ENGINE DESIGN II**

4 credits.

The overall purpose of this course is to provide the learners with an advanced understanding of internal combustion engine design. S. in engr or equiv. EPD 621 622

**Requisites:** Admission to Master of Engineering in Engine Systems degree prgm B.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E P D 624 – ENGINE PERFORMANCE AND COMBUSTION**

4 credits.

Provides learners with a physically based understanding of combustion, efficiency, and exhaust emission formation and control in internal combustion engines. S. in engr or equiv

**Requisites:** Admission to Master of Engineering in Engine System degree prgm B.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**E P D 625 – ENGINE FLUID DYNAMICS**

3 credits.

The overall purpose of this course is to provide the learners with a physically based understanding of fluid dynamics and air handling system design in internal combustion engines. S. in engr or equiv

**Requisites:** Admission to Master of Engineering in Engine Systems degree prgm B.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E P D 626 – ENGINE PROJECT MANAGEMENT**

3 credits.

Learn and practice how to plan, manage, and control a variety of projects, from simple design exercises to the complete design, analysis, development and release to production of a new engine. S. in engr or equiv

**Requisites:** Admission to Master of Engineering in Engine Systems degree prgm B.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E P D 627 – PERSPECTIVES ON ENGINE MODELING**

2 credits.

Learn about problem definition and planning, tool selection, model construction, calibration, application and data presentation in order to integrate the most appropriate modeling tools into an engine design and development project. S. in engr or equiv

**Requisites:** Admission to Master of Engineering in Engine Systems degree prgm B.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E P D 628 – ANALYSIS OF TRENDS IN ENGINES**

2 credits.

Take a scientifically-based look at trends in energy availability, emission control and refutation, and technological advances to make an assessment of the future of engines and powertrain systems for vehicles throughout the world. S. in Engineering or equivalent

**Requisites:** Admission to Master of Engineering in Engine Systems Degree Program and B.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2011

**E P D 629 – ENGINE SYSTEMS AND CONTROLS**

4 credits.

Explore fundamental control concepts for development and analysis, modeling requirements and considerations related to control and diagnostics, and the application of these tools to engine systems. S. in Engineering or equivalent

**Requisites:** Admission to Master of Engineering in Engine Systems Degree Program and B.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**E P D 641 – ESSENTIAL SKILLS FOR ENGINEERING PRODUCTIVITY**

2 credits.

Essential Skills for Engineering Productivity (ESEP) provides the knowledge, skills and attitudes needed to be efficient and effective independent learners in a networked environment. This course focuses on key concepts and critical skills for remote learning, teamwork, working with colleagues at a distance, and engineering productivity. Additionally, a large component of this course teaches effective ways of getting engineering information across to large or small audiences in live or web based presentations.

**Requisites:** Admission to an online Master of Engineering Program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**E P D 642 – THERMAL SYSTEMS ENGINEERING**

2 credits.

Use the 1st and 2nd laws of thermodynamics in the analysis of engines, and utilize ideal gas mixture, thermodynamics and combustion principles to determine adiabatic flame temperature and chemical equilibrium. S. in Engineering or equiv

**Requisites:** Admission to Master of Engineering in Engine Systems Degree Program and B.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**E P D 643 – ANALYSIS OF TRENDS IN ENGINES - LEGISLATIVE DRIVERS AND ALTERNATIVE FUELS**

1 credit.

With a scientifically-based approach, this course will consider trends in energy availability, emission control and regulation, and technological advances for assessing the future of engines and powertrain systems in vehicle applications throughout the world. S. in Engineering or equivalent

**Requisites:** Admission to Master of Engineering in Engine Systems Degree Program and B.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**E P D 644 – ANALYSIS OF TRENDS IN ENGINES - POWERTRAIN TECHNOLOGIES AND MANUFACTURING**

1 credit.

Take a scientifically-based look at trends in technological advances to make an assessment of the future of engines and powertrain systems for vehicles throughout the world as well as manufacturing constraints on future development of engines. S. in Engineering or equivalent.

**Requisites:** Admission to Master of Engineering in Engine Systems Degree Program and B.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E P D 654 – TEACHING IN SCIENCE AND ENGINEERING**

2-3 credits.

Introduction to teaching and learning in science and engineering at the college level. Includes exploration of the learning process, teaching methodology, assessment strategies, course design, teaching philosophies, and careers in education, science, and engineering.

**Requisites:** Grad stdt in sci or engr or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E P D 660 – CORE COMPETENCIES OF SUSTAINABILITY**

3 credits.

Introduces real-world pragmatic skills and applications in sustainability competencies. Content reaches across engineering expertise, from chemical engineering to buildings to product design and energy. Modules cover ecological footprinting, lifecycle assessment, resource use and integrated engineering practice.

**Requisites:** Junior standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**E P D 661 – INDUSTRIAL ECOLOGY: SUSTAINABILITY TOOLS IN CONTEXT**

3 credits.

Introduces sustainability frameworks and addresses industrial ecology by learning how and when to use a range of tools that offer systems thinking perspectives (e.g. Mass Flow analysis, Footprinting, SLCA, SWOT, EIOLCA, LCA, MIPS). Assist in constructing an evaluation matrix to evaluate tool application contexts, and discuss the relationship between optimizing systems through the use of tools and larger sustainability issues/goals.

**Requisites:** Acceptance in the ME-Sustainable Systems Engineering program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E P D 663 – ENGINEERING SUSTAINABILITY AND SOCIETY SEMINAR AND CONFERENCE**

1 credit.

Each April, the University of Wisconsin Nelson Institute for Environmental Studies hosts an Earth Day Conference in Madison, Wisconsin. The conference provides a forum for a diverse community of academia, industry and the community to discuss environmental, social, and economic aspects of sustainability. This online course prepares students in the Master of Engineering Sustainable Systems Engineering program to attend this conference through research projects and classroom discussion prior to Earth Day on the conference theme and its relationship with engineering practice. Students then travel to Madison, Wisconsin for the conference and discussion with faculty before and after the conference (travel expenses not included with tuition). Additional discussion and student presentations follow in the weeks after the conference.

**Requisites:** Admission into the Sustainable Systems Engineering program is required

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**E P D 669 – SUSTAINABLE SYSTEMS ENGINEERING CAPSTONE**

3 credits.

The Sustainable Systems Engineering (SSE) Capstone gives teams of students the opportunity to demonstrate their ability to think globally, sustainably, and creatively. Throughout this course, students will gain real-world experience by applying theory, tools, and research to conceptualize, analyze, and design a solution to a real-world problem within a social and environmental context. Projects should showcase the knowledge and analytical skills acquired during the SSE program, and integrate tools, science and communication to address a community or industry need. Students will also work with an industry mentor and customer throughout their project.

**Requisites:** Completion of at least 21 credits in the SSE program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E P D 690 – SPECIAL TOPICS IN ENGINEERING PROFESSIONAL DEVELOPMENT**

1-3 credits.

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**E P D 699 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017



**E P D 700 – CONNECTED LEARNING ESSENTIALS**

1 credit.

The course is designed to provide students with the knowledge, skills and abilities needed to be efficient and effective learners in a networked environment. The course recognizes that the role of "learner" is only one of many roles that you must play in your busy life. It strives to help you become easily adaptable to digital tools and technologies. The course cannot address all network and computing situations required by a student or professional, but will focus on key concepts, orientation, and critical skills that have been identified as key professional competencies of a digitally literate professional. You will learn key concepts to be an effective online learner and connected professional. This includes: tools and strategies for online learning; efficient time and attention management; tools and best practices for online collaboration and communication; and techniques for the continuous improvement of skills in all applicable facets of digital professional work. The goals of the course are to teach a strategic approach to learning online and to impart critical professional competencies for future success.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E P D 701 – WRITING FOR PROFESSIONALS**

1 credit.

Professional Writing is an online course in the Professional Literacy Course suite. The goal of this 1-credit, 8-week course is to prepare students to produce effective written communication that is suitable for inter-professional and inter-disciplinary audiences in a variety of workplaces. Assignments apply strategies and tools introduced in live web conferences and readings to common informal and formal workplace writing, including email, memos, proposals and executive summaries.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**E P D 702 – PROFESSIONAL PRESENTATIONS**

1 credit.

In this course, you will sharpen your ability to create, edit, review, and present information in an efficient, clear, and effective way for your audiences. The course will develop your presentation skills through a series of presentations related to your professional interests and work.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**E P D/L I S 703 – MANAGING DIGITAL INFORMATION**

1 credit.

This course helps professionals to effectively and ethically protect and organize the information that they collect, create, and manage. It also presents collaboration tools and techniques for information creation and management.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**E P D 704 – ORGANIZATIONAL COMMUNICATION AND PROBLEM SOLVING**

1 credit.

One of the most important processes in complex organizations is judgment, problem-solving, and decision-making. This course aims to help people improve their problem solving within complex organizations with a special emphasis on case studies and improving communication. The material will be from cross-discipline sources (organizational behavior, organizational communication, social psychology). The first part of the course will focus on different theories of how people solve problems and how to communicate problems effectively. The second part of the course will focus on using empirical science to learn how to effectively use groups and teams to communicate, innovate, and make decisions. The third part of the course will focus more on applied decision-making and communication at the organizational level with an emphasis on networks of communication, nudging ethical behavior, and conflict. Case studies are used that incorporate organizational communication within workplace scenarios.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**E P D 706 – CHANGE MANAGEMENT**

1 credit.

Provides emerging and practicing professionals foundational knowledge sufficient to develop a change management strategy and implement it using proven processes and tools. Through this course, students will be better prepared to deliver effective organizational performance. The course applies contemporary concepts and methods in change management through student selected projects.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**E P D 708 – CREATING BREAKTHROUGH INNOVATIONS**

1 credit.

Innovation needs processes and methods. Innovation needs tools and frameworks. But, there is no ONE right process, method, tool, or framework. Those are very context sensitive to things such as company, industry, and culture. This course is not about those things. We need to be able to be problem definers and insight generators that can apply what we learn in the real world, creating solutions and processes not seen before.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**E P D 710 – FOUNDATIONS OF ENGINEERING LEADERSHIP**

2 credits.

Build the foundations for developing, refining and strengthening your effectiveness as a leader of engineering teams, projects, and organizations. Enhance your understanding of how to match your leadership style to a team's focus, organization and culture. Grow your understanding of your strengths and weaknesses as a leader using proven assessment tools. Develop your plan for growing your leadership competency through the rest of the Master of Engineering Management program and beyond.

**Requisites:** Declared in Master of Engineering Management program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**E P D 712 – ETHICS FOR PROFESSIONALS**

1 credit.

Explores how our actions affect others and influence the choices we make within the workplace. This course will enhance ethical competencies by giving students opportunities to discuss challenges to behavior and decision-making in different professional contexts.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**E P D 713 – KEY LEGAL CONCEPTS FOR PROFESSIONALS**

1 credit.

An introduction to basic legal concepts, sources, and reasoning. Laws affect all aspects of our lives. For people without legal training, though, the legal language, procedure, and argumentation is a bit bewildering. This course aims to demystify law by providing an introduction to basic legal concepts, an overview of several key substantive areas of law, and an explanation of ways in which law functions in professional practices. The course will be grounded in U.S. and closely related common law jurisdictions, but it will consider other legal systems and international law as well.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2016**E P D 720 – ENGINE NOISE AND VIBRATION**

2 credits.

Introduces the engineer to fundamental NVH (Noise, Vibration, and Harshness) concepts with an emphasis on how NVH can be integrated throughout the engine development process from initial concept inception through to validation testing for production.

**Requisites:** Declared in Master of Engineering, Engine Systems program  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**E P D 730 – SUSTAINABLE FACILITIES**

3 credits.

Explore the environmental impacts of commercial and residential buildings, including energy, water, materials, transportation, waste, human health, and land use. All phases of a building's life cycle will be considered, along with relevant case studies, benchmarking tools, public policies and emerging concepts.

**Requisites:** Declared in Master of Engineering in Sustainable Systems Engineering**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**E P D/ACCT I S/GEN BUS 781 – FINANCIAL AND BUSINESS ACUMEN**

1 credit.

This course is designed with a keen awareness for the needs of the non-financial student or professional. For this class, no previous financial training is required. The intent is to equip you with the essential concepts used to develop financial literacy. Content will cover basic financial terms and reports, analytical tools to help interpret financial data and using financial data in budgets and forecasts. This course will not apply toward fulfilling the MBA degree requirements.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**E P D/GEN BUS/MARKETNG 782 – MARKETING FOR NON-MARKETING PROFESSIONALS**

1 credit.

An overview of marketing's role within an organization, the key elements of a marketing plan, and how the plan is implemented. Students will learn about buyer demographic, psychographic and purchasing decision behavior. A thorough understanding of the customer enables students to develop a coordinated marketing mix (product, price promotion and place) that will satisfy the customer better than the competition and at the required margin. Students will leave the course understanding the degree to which all company functions must be coordinated and focused on the customer. This course will not apply toward fulfilling the MBA degree requirements.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No

**E P D/GEN BUS/M H R 783 – LEADING TEAMS**

1 credit.

Students will gain the knowledge and skills to continuously enhance their own team performance and productivity as well as the teams they are involved with. They will also be in a much better position to lead teams effectively. This course will not apply toward fulfilling the MBA degree requirements.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**E P D/GEN BUS/OTM 784 – PROJECT MANAGEMENT ESSENTIALS**

1 credit.

This project management course teaches techniques that will help you plan, execute, and deliver projects with desired scope on time and on budget. Learn to document clear project objectives and goals, accurately estimate project time and costs, schedule and allocate time-critical resources, and establish feedback systems for optimal project control. This course will not apply toward fulfilling the MBA degree requirements.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**E P D/GEN BUS/M H R 785 – EFFECTIVE NEGOTIATION STRATEGIES**

1 credit.

This course aims at improving students' negotiating skills, doing so by providing a theoretical underpinning that will help them to understand the sources of effective and ineffective approaches to negotiations. This course will not apply toward fulfilling the MBA degree requirements.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**ENGLISH (ENGL)****ENGL 100 – INTRODUCTION TO COLLEGE COMPOSITION**

3 credits.

Focuses on development of rhetorical reading, listening, and writing abilities; provides practice in written and spoken communication (emphasis on writing); develops information literacy; provides a foundation for a variety of college course work and post-college careers. Students may receive degree credit for only one Com A course taken in residence

**Requisites:** Open to Freshmen only.

**Course Designation:** Gen Ed - Communication Part A

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENGL/THEATRE 120 – INTRODUCTION TO THEATRE AND DRAMATIC LITERATURE**

3-4 credits.

Reading important plays, attending stage productions, writing and thinking critically about theatre and drama. Emphasis on developing analytic skills in dramatic literature and theatre production. 4-credit option requires additional writing. 4 cr sections meet Com B requirement

**Requisites:** Open to Fr.**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENGL 140 – COMM B TOPICS IN ENGLISH LITERATURE**

4 credits.

A course on literature written in English that satisfies the Comm B requirement. Topic will vary by semester.

**Requisites:** None**Course Designation:** Gen Ed - Communication Part B

Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ENGL 141 – SCIENCE FICTION AND FANTASY**

3 credits.

An introduction to the literature of science fiction and fantasy; specific topics will vary.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ENGL 142 – MYSTERY AND CRIME FICTION**

3 credits.

An exploration of mystery and crime fiction written in English.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017

**ENGL 143 – THE GRAPHIC NOVEL**

3 credits.

An introduction to graphic story-telling in English, including attention to its history and developing form in the present day.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ENGL/GEN&WS 144 – WOMEN'S WRITING**

3 credits.

An introduction to literature in English written by women in various periods and places; specific topics will vary.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**ENGL 145 – AMERICAN DREAMERS**

3 credits.

A study of novels, plays, poems, and films that focus on individuals who strive to achieve success and security in America.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**ENGL/ASIAN AM 150 – LITERATURE & CULTURE OF ASIAN AMERICA**

3 credits.

Since the 19th century, "America" has often been defined by its relationship with "Asia," through cultural influence, immigration, imperialism, and war. This course traces the role of Asia and Asians in American literature and culture, from the Chinese and Japanese cultural influences that helped shape literary modernism to the rise of a distinctive culture produced by Asian immigrants to America and their descendants.

**Requisites:** None**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ENGL/ENVIR ST 153 – LITERATURE AND THE ENVIRONMENT**

3 credits.

An introduction to literature in English about the natural world and humankind's relationship with it; specific topics will vary.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**ENGL 155 – MYTH AND LITERATURE**

3 credits.

Introduction to concepts of myth and mythology, myth-making and the modern study of myth in relation to myths and legends common in English and American literature.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ENGL 156 – LITERATURE AND MEDICINE**

3 credits.

This course explores literature as both a source of knowledge about medicine and as a catalyst for reflection about medical concepts and practices, including health, illness, dying, and disability. Students will consider ways that literature can serve as a resource for patients and healthcare practitioners.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**ENGL 162 – SHAKESPEARE**

3 credits.

Introduction to several of Shakespeare's most popular plays and their relation to other works of English and American literature.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**ENGL 167 – BRITISH AND AMERICAN WRITERS**

3 credits.

An introduction to British and American literature through particular writers and themes.

**Requisites:** Open to Freshmen

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENGL 168 – MODERN LITERATURE**

3 credits.

A thematic introduction to literary works in a variety of genres written in English from the turn of the twentieth century to the present day. Emphasis may vary between writers from the U.S., Britain, Ireland, and other Anglophone nations.

**Requisites:** Open to Freshmen

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENGL 169 – MODERN AMERICAN LITERATURE**

3 credits.

An introduction to selected fiction, prose, drama and poetry written by Americans from the early twentieth century to the present day.

**Requisites:** Open to Freshmen

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**ENGL 171 – LITERATURE, GENDER, AND SEXUALITY**

3 credits.

A selected topic relating to gender and sexuality in literature.

**Requisites:** None

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ENGL/AMER IND 172 – LITERATURES OF NATIVE AMERICA**

3 credits.

Introduction to the oral and written literatures of the peoples of native North America. An engagement with texts across historical periods, tribal groups, and regions to examine forms such as oratory, sermon, testimony, autobiography, and contemporary poetry and novels.

**Requisites:** Open to Freshmen

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENGL 173 – ETHNIC AND MULTICULTURAL LITERATURE**

3 credits.

Introduction to literature that reflects the writing and experience of minority and ethnic groups. Texts will focus on a theme or problem.

**Requisites:** Open to Freshmen

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENGL 174 – LITERATURE AND SOCIAL JUSTICE**

3 credits.

An introduction to the multiple ways writers have used literary texts to engage with pressing questions about class, race, gender, equality, immigration, and other issues of social justice. Specific topics will vary.

**Requisites:** None

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**ENGL 175 – LITERATURE AND THE OTHER DISCIPLINES**

3 credits.

The depiction and valuation of other academic disciplines and intellectual work in selected works of British and American literature and the intellectual influences of other disciplines on selected works and movements of British and American literature.

**Requisites:** None

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ENGL 176 – TOPICS IN LITERATURE AND FILM**

3 credits.

An introduction to the interplay of literature and film in English, with a focus on the analysis of novels, stories, poems and other writings and their representation and transformation in and through film; specific topics will vary.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ENGL 177 – LITERATURE AND POPULAR CULTURE**

3 credits.

A selected topic studying the intersection of literature and popular culture in various forms and media.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ENGL 178 – DIGITAL MEDIA, LITERATURE, AND CULTURE**

3 credits.

An introduction to the intersection of ever-evolving digital technologies with the production and reception of literature. Lectures will examine the role of digital media in structuring the knowledge and experience of literary works; discussions will provide opportunity for critical and potentially creative practice.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ENGL 181 – FIRST-YEAR HONORS SEMINAR**

3 credits.

Honors literature seminar for first year students. Topic and materials will vary.

**Requisites:** Open to freshmen enrolled in an Honors program**Course Designation:** Gen Ed - Communication Part B

Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ENGL 182 – INTRODUCTION TO LITERATURE FOR HONORS**

3 credits.

Introductory honors course in discussion format. Topic and materials will vary. Honors program students only

**Requisites:** Open to Freshmen.**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ENGL 200 – WRITING STUDIO**

1 credit.

The focus is on students' own writing in this workshop-oriented course for writers in any discipline. Theoretical and practical foundations for drafting, revising, and reviewing a range of academic genres and approaches.

**Requisites:** Concurrent enrollment in another course where academic writing is assigned**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENGL 201 – INTERMEDIATE COMPOSITION**

3 credits.

Provides practice in persuasive writing in various modes, styles, and genres; develops an understanding of the different contexts of writing, both scholarly and public; provides opportunities for exploring the relation between writing and speaking; and provides critical tools for the rhetorical analysis of expository prose. Not open to Freshmen or auditors

**Requisites:** Communications A satisfied.**Course Designation:** Gen Ed - Communication Part B

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENGL 204 – STUDIES IN WRITING, RHETORIC, AND LITERACY**

3 credits.

What do texts do? How? For whom? How and why do writers and readers compose texts that have an impact? This course approaches these enduring questions of English studies from the perspective of Composition Rhetoric, one of English's subfields. Emphasizing critical reading and writing and built around a central theme that varies by semester, the course prepares students to analyze historical and/or contemporary examples of how texts create communities, influence beliefs, and shape knowledge.

**Requisites:** Com A and 3 credits in English (beyond English 100)**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017



**ENGL 207 – INTRODUCTION TO CREATIVE WRITING: FICTION AND POETRY WORKSHOP**

3 credits.

**Requisites:** 3 credits of literature; open to Sophomores only**Course Designation:** Gen Ed - Communication Part B

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENGL 214 – THE ENGLISH LANGUAGE**

3 credits.

This course provides an overview of the structure, use, and development of the English language and its varieties. Students who have completed English 342 prior to fall 2014 may not enroll in this course.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ENGL 219 – SHAKESPEAREAN DRAMA**

3 credits.

A survey covering most of the plays through 1600.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**ENGL 220 – SHAKESPEAREAN DRAMA**

3 credits.

A survey covering most of the plays after 1600.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**ENGL/LITTRANS 223 – VLADIMIR NABOKOV: RUSSIAN AND AMERICAN WRITINGS**

3 credits.

The major novels of Vladimir Nabokov studied in the context of Russian and American literatures. Nabokov as a quintessential artist in exile, whose work explores loss of language, country and home.

**Requisites:** Sophomore standing or consent of instructor**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENGL 224 – INTRODUCTION TO POETRY**

3 credits.

A survey of elements and styles of poetic form. Readings will be selected from British and American literature written in English.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**ENGL 236 – BASCOM COURSE**

3 credits.

A low-enrollment course developing skills in critical reading, logical thinking, use of evidence, and use of library resources. Emphasis on writing in the conventions of specific fields. Open to Freshmen

**Requisites:** Successful completion of or exemption from Com A requirement.**Course Designation:** Gen Ed - Communication Part B

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**ENGL 241 – LITERATURE AND CULTURE I: TO THE 18TH CENTURY**

3 credits.

What is a person, a home, a nation, a world? What we now call "English literature" begins with these questions, imagining a cosmos filled with gods and heroes, liars and thieves, angels and demons, dragons and dungeons, whores and witches, drunken stupor and religious ecstasy. Authors crafted answers to these questions using technologies of writing from parchment to the printing press, and genres old and new, from epic and romance to drama and the sonnet. This course develops skills of critical reading and writing that are essential to majors and non-majors alike.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ENGL 242 – LITERATURE AND CULTURE II: FROM THE 18TH CENTURY TO THE PRESENT**

3 credits.

This course considers a period of unparalleled tumult: a time of vast world empires and startling new technologies, revolutions that radically redefined self and community, two cataclysmic world wars, the emergence of ideas of human rights, and the first truly global feelings of interconnectedness. How has literature captured and contributed to these dramatic upheavals? Some writers worldwide have struggled to invent new forms, new words, and new genres to do justice to a world in crisis, while others have reached back in time, seeking continuity with the past. We will explore enduring traditions of poetry and drama and think about experiments in the new, globally popular genre of the novel. This course develops skills of critical reading and writing that are essential to majors and non-majors alike.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENGL 243 – AMERICAN LITERARY CULTURES**

3 credits.

Is America a new world, a city on a hill, an imperial power? Are American literatures revolutionary, nationalist, countercultural? This course explores how writers have wrestled with such questions for several hundred years. We will encounter literary figures from white whales to red wheelbarrows, focusing on the diverse geographies, cultural practices, and political mythologies that compose the Americas, and interrogating what is meant by American literature and what it means to be American. We will consider the ways that genres from Native stories to slave narratives to postmodern novels have contributed to social, intellectual, and political currents of American cultures. This course develops skills of critical reading and writing that are essential to majors and non-majors alike.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**ENGL 245 – SEMINAR IN THE MAJOR**

3 credits.

This small seminar, taught by a faculty member, will offer students close instruction in the principles and practices of informed, engaged, critical reading and writing. While the texts and topics vary, each seminar will reinforce fundamental skills taught across the English major, strengthening students' capacities to write and speak powerfully and to build convincing, original, well-organized arguments that persuade audiences of their significance. Students will meet with the professor in individual writing conferences and will write at least 30 pages, including drafts and informal assignments spread throughout the semester.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENGL/AMER IND 246 – LITERATURE BY AMERICAN INDIAN WOMEN**

3 credits.

Presents a broad range of literatures from diverse Native traditions and eras, to provide students with a basic knowledge of major issues affecting and best-known texts by American Indian women authors.

**Requisites:** Open to Freshmen**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2012**ENGL/GEN&WS 248 – WOMEN IN ETHNIC AMERICAN LITERATURE**

3 credits.

An introduction to American literature by and about women, written by authors from ethnic groups.

**Requisites:** 6 credits of introductory literature**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENGL/GEN&WS 250 – WOMEN IN LITERATURE**

3 credits.

Works by British and American writers, with emphasis on women writers of the twentieth century; close reading of texts and discussion of trends, themes, and special characteristics of the role of women in literature.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**ENGL/ASIAN AM 270 – A SURVEY OF ASIAN AMERICAN LITERATURE**  
3 credits.

Survey of Asian American literature from 1880 to present.

**Requisites:** 6 credits of introductory literature or consent of instructor

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**ENGL 271 – WRITING WITH NEW MEDIA**  
3 credits.

Digital technologies such as blogs, wikis, videogames, and social media sites present new sites for understanding how we consume and produce information. This course approaches these technologies by asking students to study how they fit within the long history of advances in writing technology. Students both analyze and create digital objects and arguments. The course prepares students to meaningfully engage with digital technologies by demonstrating how long-standing theories of reading and writing can be augmented to address emerging technological environments.

**Requisites:** Sophomore standing or consent of instructor

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ENGL/AMER IND 274 – INDIGENOUS LITERATURE OF THE GREAT LAKES**  
3 credits.

A study of the literature and cultural expression of peoples indigenous to the Great Lakes of North America. Close critical examination of formal aesthetics, literary history, and contemporary issues in oral tradition, autobiography, drama, poetry, novel, and film.

**Requisites:** Open to Freshmen

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**ENGL/AMER IND 275 – AMERICAN INDIAN ORAL LITERATURES**  
3 credits.

A study of American Indian oral literature including literature from Wisconsin tribes or from other regions such as Southwest or Great Plains. This course emphasizes Native American storytellers. Open to Freshmen

**Requisites:** 6 credits of introductory literature or consent of instructor.

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**ENGL 279 – TOPICS IN ENGLISH, STUDY ABROAD - LITERATURE**  
1-6 credits.

Provides an equivalency for intermediate-level English literature courses taken on a UW-Madison study abroad program.

**Requisites:** None

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2009

**ENGL 304 – COMPOSITION & RHETORIC IN AND BEYOND THE UNIVERSITY**  
3 credits.

Introduces English majors and others to the study of writing and rhetoric. Covers major theories, practices, and research areas in the field of Composition Rhetoric with attention to their importance both inside and outside the University.

**Requisites:** Com A and 3 credits English (beyond English 100)

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**ENGL 307 – CREATIVE WRITING: FICTION AND POETRY WORKSHOP**  
3 credits.

An introductory creative writing course, enabling students to write fiction and poetry, and to read selected contemporary writers as models. Students who do not meet the prerequisite may submit a writing sample to the program director on Monday of the last week of classes.

**Requisites:** Junior standing or ENGLISH 207; or have taken ENGL 203 prior Fall 2014

**Course Designation:** Gen Ed - Communication Part B

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENGL 314 – STRUCTURE OF ENGLISH**

3 credits.

An introduction to linguistic methods of analysis and description of English syntax and morphology. Students who have taken English 324 prior to fall 2014 may not enroll in this course.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENGL 315 – ENGLISH PHONOLOGY**

3 credits.

Basic principles of phonetics and phonology applied to the description of English. Students who have taken English 330 prior to fall 2014 may not enroll in this course.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENGL 316 – ENGLISH LANGUAGE VARIATION IN THE U.S.**

3 credits.

Description and analysis of geographical and social variation in English in the United States. Students who have taken English 331 prior to fall 2014 may not enroll in this course.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENGL 318 – SECOND LANGUAGE ACQUISITION**

3 credits.

An introduction to the systematic study of how people learn ESL and other second languages. An interdisciplinary survey emphasizing research in linguistics, psychology, education, and sociology into the phenomenon of second language acquisition. Students who have taken English 333 prior to fall 2014 may not enroll in this course.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENGL 319 – LANGUAGE, RACE, AND IDENTITY**

3 credits.

Relation of culture and genetics to formal properties of human language; consideration of American English dialects and language disorders.

Topics include: biological basis of language disorders; racial affiliation and social identity; maintenance of social boundaries; politics of education, speech therapy.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Biological Science or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**ENGL 328 – THE SIXTEENTH CENTURY**

3 credits.

Introduction to the literature and culture of Britain in the sixteenth century. Students who have taken English 400 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**ENGL 331 – SEVENTEENTH-CENTURY LITERATURE AND CULTURE**

3 credits.

An introduction to the literature and culture of Britain in the seventeenth century, including the work of John Donne and Ben Jonson. Students who took English 420 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**ENGL 334 – EIGHTEENTH CENTURY LITERATURE AND CULTURE**

3 credits.

Introduction to eighteenth-century literature and culture, including such writers as Dryden, Defoe, Swift, and Pope. Students who have taken English 444 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2009

**ENGL 335 – STAGE AND PAGE IN THE LONG EIGHTEENTH CENTURY**

3 credits.

This class is about what happens to English drama after Shakespeare's death. Public theaters closed, considered too racy for the moral health of the population. When they reopened in 1660, sex took center stage in productions of plays both old and new. Women acted on stages in London for the first time, both in roles originally written for cross-dressing boys and in new ones designed for female actors. Female playwrights entered the scene as well, writing for financial profit alongside their male counterparts. This class will read a sampling of plays and theatrical entertainments performed during the Restoration and eighteenth century as well as publications surrounding the world of the theater to gain a sense of drama on the page and on the stage. Students who have taken English 437 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2009**ENGL 336 – EIGHTEENTH-CENTURY NOVEL**

3 credits.

Students who have taken English 459 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENGL 340 – ROMANTIC LITERATURE AND CULTURE**

3 credits.

An overview of the literature of the Romantic age in relation to philosophical, cultural, historical, artistic or scientific backgrounds and contexts. Students who have taken English 464 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**ENGL 341 – ROMANTIC POETRY**

3 credits.

English poetry from Wordsworth to Keats; certain essays, literary and critical, by the writers of the time. Students who have taken English 463 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2011**ENGL 344 – VICTORIAN LITERATURE AND CULTURE**

3 credits.

Introduction to Victorian writers, such as Dickens, the Brontes, the Brownings, and George Eliot, in historical context.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2012**ENGL 345 – NINETEENTH-CENTURY NOVEL**

3 credits.

Introduction to the nineteenth-century novel. The century begins with Jane Austen, includes some of the great realist novelists, such as George Eliot and Charles Dickens, and ends with experiments in novel-writing by Oscar Wilde and Joseph Conrad. Students who have taken English 460 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2013**ENGL 346 – VICTORIAN POETRY**

3 credits.

An exploration of Victorian poets, such as the Brownings, Tennyson, and Christina Rossetti. Any student who has taken English 473 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENGL 351 – MODERNIST NOVEL**

3 credits.

An introduction to the work of Modernist novelists such as Virginia Woolf, James Joyce, and E. M. Forster. Students who have taken English 501 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017

**ENGL 352 – MODERNIST POETRY**

3 credits.

Exploration of British, Irish, and Anglophone poets working in the early twentieth century, such as W. B. Yeats, T. S. Eliot, Gertrude Stein, and Ezra Pound. Students who have taken English 510 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2011**ENGL 353 – BRITISH LITERATURE SINCE 1900**

3 credits.

Survey of twentieth-century British literature including fiction, poetry, and drama. Students who have taken English 507 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ENGL 355 – COLONIAL AND EARLY ROMANTIC AMERICAN LITERATURE**

3 credits.

Historical study of the major figures, genres, and ideas of the period (beginnings to 1835). Students who have taken English 608 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2009**ENGL 356 – NINETEENTH-CENTURY AMERICAN FICTION**

3 credits.

A comprehensive survey of the American novel from its beginnings in the late eighteenth century to 1914.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2013**ENGL 357 – MAJOR AMERICAN POETS**

3 credits.

Development, range of ideas, and poetic theory of Freneau, Bryant, Whittier, Emerson, Poe, Longfellow, Lowell, Holmes, Dickinson, Lanier, Whitman, Lindsay, and Robinson. Students who have taken English 613 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**ENGL 358 – LITERATURE OF THE AMERICAN RENAISSANCE**

3 credits.

Historical survey of the major figures, genres, and ideas of the Romantic period (1835 to the Civil War). Students who have taken English 618 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2012**ENGL/HISTORY/RELIG ST 360 – THE ANGLO-SAXONS**

3 credits.

Life and literature during the Old English period (c450-c1100). Primary emphasis on the vernacular and Latin writings of the Anglo-Saxons themselves. Extensive historical and archaeological background; attention to the development and character of monasticism, to the production of manuscripts, etc. All reading in translation. Students who have taken English 360 prior to fall 2014 may not enroll in the course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENGL 361 – MODERN AND CONTEMPORARY AMERICAN LITERATURE**

3 credits.

Survey of modern and contemporary American literature including fiction, poetry, drama, and criticism. Students who have taken English 633 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017



**ENGL 362 – AMERICAN FICTION SINCE 1900**

3 credits.

Intensive study of a limited number of major American authors or single novels.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**ENGL 363 – THE AMERICAN SHORT STORY**

3 credits.

Major American stories from Washington Irving to the present. Students who have taken English 610 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2012

**ENGL/CHICLA 368 – CHICANA/O AND LATINA/O LITERATURES**

3 credits.

Course explores historical, political, and aesthetic roots and directions of Latina/o and Chicana/o short stories, novels, poetry, music, plays, films, and essays. Intermediate/advanced study for English majors and/or CLS certificate program students. Students who have taken English 357 prior to fall 2014 may not enroll in this course.

**Requisites:** Junior standing 6 credits literature, or consent of instructor

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**ENGL 373 – CONTEMPORARY POETRY**

3 credits.

Study of significant recent poetry written in English.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**ENGL 374 – AFRICAN AND AFRICAN DIASPORA LITERATURE AND CULTURE**

3 credits.

The course will explore classic literary and cultural texts from three regions: Africa, the Caribbean, and African America. We will consider the origins and evolution of the African diaspora, and the many forms of its expression. We will consider how the African diaspora has shaped US society today, exploring significant themes such as slavery and colonialism, race and cultural identity; intra-racial/cultural and cross-continental alliances and antagonisms; gender and genre; and the paradoxical fate so far-cultural visibility but peripheral political and economic power- of global Afro-cultures. We will think about how African-American writers have been influenced by the experience of the African diaspora, and also about the ways that cultural expression from around the world has shaped US culture. This course will encourage students to think about how long histories of race, identity, and slavery continue to shape our present; it will promote critical thinking by challenging students to question claims made by others and their own assumptions; it will invite students to think through the perspectives of others with empathy and respect, and stimulate thinking about identity.

**Requisites:** None

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**ENGL 375 – LITERATURES OF MIGRATION AND DIASPORA**

3 credits.

An exploration of literature by or about people who leave homes and homelands by choice or compulsion.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**ENGL 379 – POSTCOLONIAL AND WORLD LITERATURE**

3 credits.

Introduction to the English language literatures of former colonies, primarily in Africa and South Asia. While scrutinizing the concept of the "postcolonial" and evaluating its many meanings, class will read some of the significant writers of the postcolonial world and attend to the literary traditions that produced them.

**Requisites:** Six credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**ENGL 381 – SOPHOMORE HONORS: RESEARCH METHODS IN ENGLISH**  
3 credits.

Introduction to the methods and tools of literary and literary/historical research, normally by tracing a theme, genre, or idea across several periods of literature. Course work leads to the writing of a long research paper.

**Requisites:** 6 credits of introductory literature Honors student or consent of instructor

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**ENGL 400 – ADVANCED COMPOSITION**  
3 credits.

Focuses on developing complex understandings of rhetorical, ethical, and literary strategies for writing. Practice in writing a range of nonfiction genres with attention to varieties of style, context, critical standards, and conventions. Designed for students with a strong interest in writing. May include multi-modal assignments. Students who have taken English 315 prior to fall 2014 may not enroll in this course. Junior or Senior standing

**Requisites:** Completion of Com A and Com B; English 100, English 201, English 203 (prior to Fall 2014) or English 207 recommended.

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**ENGL 403 – SEMINAR ON TUTORING WRITING ACROSS THE CURRICULUM**  
3 credits.

Explores current theory and research on the writing process and analyzes disciplinary genres and conventions. Teaches strategies for helping writers revise their work. As Undergraduate Writing Fellows, students will help their peers improve their writing in courses across the curriculum.

Students who completed English 316 prior to fall semester 2014 may not receive credit for English 403

**Requisites:** Consent of instructor and acceptance into the Writing Fellows Program.

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Accelerated Honors (!)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENGL 407 – CREATIVE WRITING: NONFICTION WORKSHOP**  
3 credits.

This course explores a variety of non-fictional prose writing forms including (at the instructor's discretion) personal essay, memoir, travel writing, opinion pieces, investigative journalism, public science writing, and natural history writing. Some time is spent on theory and technique; some time is spent reading the work of established writers; some short writing exercises may be assigned. The major focus of the course is on student writing, both in the classroom and in individual conferences. All others may apply for admittance by submitting an application and writing sample the last week of classes during the preceding semester. No student may register for or be enrolled in more than one Creative Writing course in a given semester without approval of the program coordinator

**Requisites:** English 207 or 307 completed Fall 2014 or later; or, English 203 or 300 completed prior to Fall 2014.

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENGL 408 – CREATIVE WRITING: FICTION WORKSHOP**  
3 credits.

Students who do not meet the prerequisite may submit a writing sample to the program director on Monday of the last week of classes. 0 or higher. English 207 or 307 taken Fall 2014 or later; English 203, 300-307 taken prior to Fall 2014

**Requisites:** Completion of one of the following with a 3.

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENGL 409 – CREATIVE WRITING: POETRY WORKSHOP**  
3 credits.

Students who do not meet the prerequisite may submit a writing sample to the program director on Monday of the last week of classes. 0 or higher. English 207 or 307 taken Fall 2014 or later; English 203, 300-307 taken prior to Fall 2014

**Requisites:** Completion of one of the following with a 3.

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENGL 410 – CREATIVE WRITING: PLAYWRITING WORKSHOP**

3 credits.

This workshop explores the art and craft of writing for the stage. The course examines strategies that writers can use to tell stories and communicate ideas both theatrically and dramatically. Some time is spent on theory and technique; some time is spent reading the work of established writers; some short writing exercises may be assigned. The major focus of the course is on student writing, both in the classroom and in individual conferences. All others may apply for admittance by submitting an application and writing sample the last week of classes during the preceding semester. No student may register for or be enrolled in more than one Creative Writing course in a given semester without approval of the program coordinator

**Requisites:** English 207 or English 307 required.**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ENGL 411 – CREATIVE WRITING: SPECIAL TOPICS WORKSHOP**

3 credits.

Variable topics including: the informal essay, the long poem, the novel, the novella, genre fiction (detective, juvenile, humor, science fiction, etc.), experimental prose and poetry, etc. Students will read models and write their own exercise and fulllength pieces. No student may enrolled in more than one Creative Writing course in a given semester without approval of the program coordinator. Students who do not meet the prerequisite may submit a writing sample to the program director on Monday of the last week of classes. Or, ENGLISH 301, 302, 303, 304, 305, 306 taken prior to Fall 2014

**Requisites:** ENGL 207, 307, 407, 408, 409, 410, 411, or 511.**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

Honors - Accelerated Honors (!)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ENGL 413 – ENGLISH WORDS: GRAMMAR, CULTURE, MIND**

3 credits.

Words and rules of combination (grammar) are the two basic building blocks of language. In this course, we look at English words from different linguistic perspectives: As objects of grammar, words follow certain rules of combination (you wouldn't say "these dog"), but they also have internal structure. For example, a word like "hopefulness is fine, while "hopenessful" does not exist. From a psycholinguistic perspective we will examine how children learn these formal properties as well as the meaning of words. We will also study how words are stored in the mind and what one can learn from situations in which one cannot access the mental dictionary properly (for example, when one feels a word is on "the tip of one's tongue"). From a sociolinguistic perspective, we will look at historical and current influences on English vocabulary, including the role of dictionaries and spelling as a source of standardization. This course does not require previous knowledge of linguistics.

**Requisites:** Sophomore standing**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**ENGL 414 – GLOBAL SPREAD OF ENGLISH**

3 credits.

Examination of the linguistic, social, and political impact of the spread of English around the world. Analysis of geographical, social, and stylistic variation in English in diverse world contexts. Students who have taken English 332 prior to fall 2014 may not enroll in this course.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**ENGL 415 – INTRODUCTION TO TESOL METHODS**

3 credits.

An introduction to the teaching of English to speakers of other languages. Exploration of the contexts in which English is taught, and methods and materials used to teach it. Students who have taken English 334 prior to fall 2014 may not enroll in this course.

**Requisites:** Sophomore standing consent of instructor**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ENGL 416 – ENGLISH IN SOCIETY**

3 credits.

Social and public uses of English; relationships of English structure, lexicon, and discourse to race, gender, class, education, ethnicity, age, and identity; the role of English in public policy. Students who have taken English 336 prior to fall 2014 may not enroll in this course.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENGL 417 – HISTORY OF THE ENGLISH LANGUAGE**

3 credits.

Linguistic and sociolinguistic change in English from its beginnings to the present. Students who have taken English 323 prior to fall 2014 may not enroll in this course.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENGL/GEN&WS 419 – GENDER AND LANGUAGE**

3 credits.

Examines taken-for-granted understandings of language and gender. Students produce analytic assignments and research projects, drawing on interdisciplinary theories and methods to address the representation and enactment of gender in talk, writing, and/or literary works. Students who have taken English 341 prior to fall 2014 may not enroll in this course.

**Requisites:** Junior standing**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2010**ENGL 420 – TOPICS IN ENGLISH LANGUAGE AND LINGUISTICS**

3 credits.

Subject differs each year.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ENGL 422 – OUTSTANDING FIGURE(S) IN LITERATURE BEFORE 1800**

3 credits.

Subject differs each year.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ENGL/MEDIEVAL 423 – TOPIC IN MEDIEVAL LITERATURE AND CULTURE**

3 credits.

Subject differs each year.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**ENGL/MEDIEVAL 424 – MEDIEVAL DRAMA**

3 credits.

An introduction to the dramatic traditions of medieval England, from early church rituals performed inside quiet monasteries in the tenth century to the elaborate and often raucous urban guild cycles and morality plays of the fifteenth, and with special attention to the significance of spirituality, work, and play in medieval culture.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**ENGL/MEDIEVAL 425 – MEDIEVAL ROMANCE**

3 credits.

An introduction to one of the first forms of narrative fiction, covering tales of adventure, magic, courtly love, and King Arthur from the twelfth through the fifteenth century.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014

**ENGL/MEDIEVAL 426 – CHAUCERS COURTLY POETRY**

3 credits.

An introduction to the poetry of the most famous and influential medieval English poet, from his short lyrics on love through his dream visions of talking birds and castles built on ice to the historical romance Troilus and Criseyde. Readings will be in the original Middle English; no prior experience with the language is required. Students who have taken English 368 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENGL/MEDIEVAL 427 – CHAUCER'S CANTERBURY TALES**

3 credits.

An introduction to the most famous and influential medieval English poet through his best-known work and its playful and profound responses to some of the most pressing literary, social, political, and spiritual issues of his time. Readings will be in the original Middle English; no prior experience with the language is required. Students who have taken English 367 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENGL 430 – TOPIC IN EARLY MODERN LITERATURE AND CULTURE**

3 credits.

Subject differs each year.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ENGL 431 – EARLY WORKS OF SHAKESPEARE**

3 credits.

Four plays through 1600, with the reading of several others. Students who have taken English 417 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENGL 432 – LATER WORKS OF SHAKESPEARE**

3 credits.

Four plays after 1600 with the reading of several others. Students who have taken English 432 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**ENGL 433 – SPENSER**

3 credits.

Spenser's major poems. Students who have taken English 405 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**ENGL/RELIG ST 434 – MILTON**

3 credits.

Major poems and selected prose.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**ENGL 438 – TOPIC IN EIGHTEENTH-CENTURY LITERATURE AND CULTURE**

3 credits.

Subject differs each year.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ENGL 439 – TOPIC IN EARLY AMERICAN LITERATURE AND CULTURE**

3 credits.

Subject differs each year.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014

**ENGL 443 – OUTSTANDING FIGURE(S) IN LITERATURE SINCE 1800**

3 credits.

Subject differs each year.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ENGL 444 – TOPIC IN ROMANTIC OR VICTORIAN LITERATURE AND CULTURE**

3 credits.

Topic varies from year to year.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**ENGL 446 – ROMANTIC AUTOBIOGRAPHIES**

3 credits.

Autobiography and romanticism entered into the world at virtually the same moment. This is not only because the early part of the nineteenth century was a time in which, as one contemporary put it, "booksellers, public lecturers, pickpockets, and poets become autobiographers," but also because romanticism has often been understood as an ideology of the self in which the individual imagination is recognized as the source of the world. This course will explore the meaning of autobiography and its centrality to romanticism through readings in prose, poetry, and criticism.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**ENGL 453 – TOPIC IN BRITISH LITERATURE AND CULTURE SINCE 1900**

3 credits.

Subject differs each year.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ENGL 454 – JAMES JOYCE**

3 credits.

Students who have taken English 503 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENGL 455 – A STUDY OF AN OUTSTANDING FIGURE OR FIGURES IN AMERICAN LITERATURE**

3 credits.

Subject differs each year.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**ENGL 456 – TOPIC IN NINETEENTH-CENTURY AMERICAN LITERATURE AND CULTURE**

3 credits.

Subject differs each year.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ENGL 457 – TOPIC IN AMERICAN LITERATURE AND CULTURE SINCE 1900**

3 credits.

Subject differs each year.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ENGL 458 – MAJOR AMERICAN WRITER OR WRITERS**

3 credits.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015



**ENGL 459 – THREE AMERICAN NOVELISTS**

3 credits.

Concentrated study of US novelists. Students who have taken English 619 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENGL 461 – TOPICS IN ETHNIC AND MULTICULTURAL LITERATURE**

3 credits.

Literature in English by authors whose work reflects the experience of ethnic and minority groups.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**ENGL/ASIAN AM 462 – TOPIC IN ASIAN AMERICAN LITERATURE**

3 credits.

Topics will vary. All topics will emphasize the following learning outcomes: awareness of history's impact on the present, ability to recognize and question assumptions, development of critical thinking skills, awareness of relations between self and others, and effective participation in a multicultural society.

**Requisites:** Six (6) credits of introductory literature

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**ENGL/ASIAN AM/GEN&WS 463 – RACE AND SEXUALITY IN AMERICAN LITERATURE**

3 credits.

Explores the intersection between race and sexuality in American literature with an emphasis on sex/gender difference, feminism, transgenderism, and nationalism. Focuses on the nature of literature as advocacy, with an emphasis on Asian-American issues. Students who have taken English 654 prior to fall 2014 may not enroll in this course.

**Requisites:** Sophomore standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**ENGL/ASIAN AM/GEN&WS 464 – ASIAN AMERICAN WOMEN WRITERS**

3 credits.

A study of major texts by Asian American women writers.

**Requisites:** 6 credits of introductory literature or consent of instructor

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**ENGL/ASIAN AM 465 – ASIAN AMERICAN POETRY**

3 credits.

Throughout the history of Asian America, poetry has been a vehicle for the creation and exploration of an Asian American voice; in poetry we can see the continuing struggle over what form Asian American expression will take. Will it follow Asian or European models? Will it employ traditional forms, or experiment in search of new styles? Will it be individual or collective, introspective or political? We will explore these questions through a study of a wide range of Asian American poets from a variety of historical periods and ethnicities, including Janice Mirikitani, Lawson Fusao Inada, Li-Young Lee, John Yau, Myung Mi Kim, and Linh Dinh.

**Requisites:** 6 Credits of introductory literature

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**ENGL/AMER IND 467 – CONTEMPORARY AMERICAN INDIAN LITERATURE SINCE 1953**

3 credits.

A study of American Indian literary and cultural expression since 1953, the year of federal "termination" of Native nations and their subsequent revival. Close critical examination of historical and contemporary themes in autobiography, drama, poetry, and novel. Students who have taken English 650 prior to fall 2014 may not enroll in this course.

**Requisites:** English 172 or consent of instructor

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**ENGL 469 – INTERDISCIPLINARY STUDIES IN THE ARTS**

1-4 credits.

Guest artists will offer interdisciplinary courses on topics appropriate to their specializations.

**Requisites:** Consent of department

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2014

**ENGL 473 – TOPIC IN POSTCOLONIAL OR WORLD LITERATURE**

3 credits.

This course will follow a theme or question in literature that crosses national boundaries, inviting students to think about forces of imperialism and globalization. Specific focus will vary.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ENGL 474 – TOPIC IN CONTEMPORARY LITERATURE**

3 credits.

Study of recent literature written in English. Specific topic will vary.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ENGL/THEATRE 477 – DIASPORA AND THEATRE**

3 credits.

Study of the drama and theatre of a variety of immigrant communities in three Western locations: Britain, the United States, and Canada. Course focuses on current theories of diaspora and transnationalism, the place of theatre in diasporic writing, and the literary, performative, and material dimensions of the genre.

**Requisites:** Sophomore Standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ENGL/LCA 478 – INDIAN WRITERS ABROAD: LITERATURE, DIASPORA AND GLOBALIZATION**

3 credits.

Study of literature, drama, and film produced by authors of South Asian origin in Europe, North America, and the Caribbean. Course considers theories of diaspora, changing patterns of subcontinental migration, and relation of diasporic forms to the cultures of origin and adoption. Students who have taken English 524 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**ENGL 479 – CONTEMPORARY WORLD THEATRE IN ENGLISH**

3 credits.

Significant recent dramatists who have written in English.

**Requisites:** 6 credits of literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**ENGL 481 – JUNIOR HONORS SEMINAR IN THE MAJOR**

3 credits.

Seminars focus on a variety of topics, usually a theme or a genre which draw upon literature of several periods.

**Requisites:** 6 credits of introductory literature Honors student or consent of instructor**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**ENGL 482 – HONORS SEMINAR**

3 credits.

**Requisites:** 6 credits of introductory literature Honors student or consent of instructor**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2009**ENGL 500 – WRITING IN WORKPLACES**

3 credits.

First in a two-course sequence for juniors and seniors who want to develop broader awareness of workplace writing in relation to personal literacy and rhetorical contexts. Practice in producing professional quality texts. Attention to digital writing situations, including writing for the web. Serves as a prerequisite for English 501. Students who have completed English 317 prior to fall 2014 may not enroll in this course. Com A and Com B. Students who have taken English 317 prior to fall 2014 may not enroll in this course

**Requisites:** Consent of instructor; Preference to seniors and English majors.**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2014

**ENGL 501 – WRITING INTERNSHIP**

3 credits.

Practical experience in a workplace setting that requires writing. Minimum 6-10 hours per week plus class meetings. Analysis of professional writing situations and conventions. A final report and reflection connects the internship to previous coursework. May involve multi-modal composition (e.g., digital storytelling). Students who have taken English 318 prior to fall 2014 may not enroll in this course.

**Requisites:** English 317 and consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Workplace - Workplace Experience Course

**Repeatable for Credit:** No**Last Taught:** Spring 2013**ENGL 505 – TOPICS IN COMPOSITION AND RHETORIC**

3 credits.

This course offers English majors and other interested students an opportunity for in-depth intellectual engagement with the perspectives, concerns, and methods of Composition Rhetoric. Topics vary in relation to writing, rhetoric, literacy, and multimodal or digital approaches to any of these. Junior or Senior standing or consent of instructor

**Requisites:** Completion of Com A requirement and 3 credits in English (past English 100).**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**ENGL 508 – CREATIVE WRITING: ADVANCED FICTION WORKSHOP**

3 credits.

Students who do not meet the prerequisite may submit a writing sample to the program director on Monday of the last week of classes. No student may register for or be enrolled in more than one Creative Writing course in a given semester without approval of the program coordinator

**Requisites:** Completion of one of the following: English 408 taken Fall 2014 or later; or English 301 taken prior to Fall 2014.**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

Honors - Accelerated Honors (!)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012**ENGL 509 – CREATIVE WRITING: ADVANCED POETRY WORKSHOP**

3 credits.

Students who do not meet the prerequisite may submit a writing sample to the program director on Monday of the last week of classes. No student may register for or be enrolled in more than one Creative Writing course in a given semester without approval of the program coordinator

**Requisites:** Completion of one of the following: English 409 taken Fall 2014 or later; or English 302 taken prior to Fall 2014.**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

Honors - Accelerated Honors (!)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2013**ENGL 514 – ENGLISH SYNTAX**

3 credits.

Introduction to syntactic theory as applied to the analysis of English sentences. Students who have taken English 329 prior to fall 2014 may not enroll in this course.

**Requisites:** Must have taken English 314 in Fall 2014 or later; or English 324 prior to Fall 2014.**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENGL 515 – TECHNIQUES AND MATERIALS FOR TESOL**

3 credits.

Supervised practice in the use of current techniques and materials in the teaching of English to speakers of other languages, including peer and community teaching with videotaped sessions. Students who have taken English 335 prior to fall 2014 may not enroll in this course.

**Requisites:** English 415 completed Fall 2014 or later, or English 334 completed prior to Fall 2014**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENGL 516 – ENGLISH GRAMMAR IN USE**

3 credits.

A course in the functions of English grammar, covering use in a variety of contexts and text types. Assignments involve analysis of spoken and written English across genres and settings. Students who have taken English 325 prior to fall 2014 may not enroll in this course.

**Requisites:** Must have taken English 314 in Fall 2014 or later; or English 324 prior to Fall 2014.**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ENGL/MEDIEVAL 520 – OLD ENGLISH**

3 credits.

The elements of Old English grammar with selected readings. Students who have taken English 320 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Honors - Accelerated Honors (!)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENGL/MEDIEVAL 521 – ADVANCED OLD ENGLISH LITERATURE**

3 credits.

An intensive study of a major work or works of Old English, usually focusing on either Beowulf or the poems of a single manuscript. Line-by-line translation of the text will be supplemented by discussion of related issues (whether linguistic, thematic, or contextual) as well as by readings from relevant critical literature. Primary texts will be read in Old English.

**Requisites:** Must have taken English 520 Fall 2014 or later; or English 320 prior to Fall 2014

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Honors - Accelerated Honors (!)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**ENGL/MEDIEVAL 522 – MIDDLE ENGLISH LANGUAGE**

3 credits.

The English language and its development in selected texts from the Norman Conquest to Chaucer. Students who have taken English 321 prior to fall 2014 may not enroll in this course.

**Requisites:** 522 completed Fall 2014 or later, or 320 completed prior to Fall 2014

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**ENGL 531 – HUMANS, NON-HUMANS, POST-HUMANS**

3 credits.

Literary study of the environmental relations between the humans and nonhuman elements of the natural world.

**Requisites:** Six credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**ENGL 532 – LITERATURE AND ANIMAL STUDIES**

3 credits.

We usually take for granted that literature is centrally about human experience, but here students will consider the ways that animals and animal consciousness figure in literature. This course will include theoretical as well as literary readings.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**ENGL 533 – TOPIC IN LITERATURE AND THE ENVIRONMENT**

3 credits.

Course topic will vary.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**ENGL/THEATRE 534 – AMERICAN DRAMA AND THEATRE TO 1900**

3 credits.

Significant American plays, playwrights and modes of theatrical production during the eighteenth and nineteenth centuries, with attention to the theatre as a force in a developing national culture.

**Requisites:** Junior standing

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**ENGL 537 – SEX, LOVE, AND POWER: TOPIC IN LITERATURE AND SEXUALITY**

3 credits.

Exploration of ways that literary writers and theorists have engaged questions of sexuality.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**ENGL 538 – WOMEN'S TRADITIONS IN THE NOVEL**

3 credits.

Introduction to women's traditions in the novel and an exploration of theoretical issues arising from the claims for a gendered tradition. Students who have taken English 570 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2011**ENGL/JEWISH 539 – JEWISH LITERATURES IN DIASPORA**

3 credits.

An exploration of Jewish literature in English and in Anglophone contexts.

**Requisites:** 6 credits of introductory English**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2005**ENGL 543 – DISCOURSES OF DISABILITY, ANTIQUITY TO 1800**

3 credits.

Course centers on concepts of physical disability from antiquity to the Renaissance. Literary theory, philosophy, and history will help frame thinking about how disability is produced. Along with considering how canonical texts represent disabled figures, class will investigate the generic, social, and spatial contexts from which these representations arise.

**Requisites:** 6 credits of intro lit**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**ENGL 544 – MODERN DISCOURSES OF DISABILITY**

3 credits.

Study of the representations of physical and mental disabilities in fiction, poetry, memoir, drama, and film. Primary emphasis will be on texts produced in English since 1800.

**Requisites:** 6 credits of intro lit**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**ENGL/GEN&WS 545 – FEMINIST THEORY AND WOMEN'S WRITING IN ENGLISH**

3 credits.

Subject will vary.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ENGL 546 – TOPIC IN TRAVEL WRITING BEFORE 1800**

3 credits.

This course will examine some aspect of travel literature before 1800. It will pay attention to texts written by travelers of many stripes - pilgrims, missionaries, crusaders, counselors, merchants, and dreamers. It will explore how writers narrate relations between the familiar and the strange, the near and far. And it will ask students to consider the relationship of geography to conceptions of personal and collective identity. How do travel writers represent "us" and "them," "self" and "other"? Who claims space, who characterizes it, and on what grounds?

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**ENGL 548 – TOPIC IN LITERATURE AND POLITICS**

3 credits.

Course focus will vary.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**ENGL 559 – TOPIC IN LITERARY OR CULTURAL THEORY**

3 credits.

An exploration of the methods and principles of criticism; generally an experiment in the application of a particular critical method or a group of related critical presuppositions to an appropriate body of English and American literature. Content varies.

**Requisites:** 6 cr of intro lit**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015



**ENGL 560 – NARRATIVE THEORY**

3 credits.

An introduction to narrative theory—the study of stories. We will consider the purpose and value of stories for human cultures, their structure, and their ways of shaping experience.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**ENGL 561 – MODERN CRITICAL THEORIES**

3 credits.

Variety and complexity of twentieth century critical thought. Intensive investigation of the works of selected theorists. Students who have taken English 553 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENGL 562 – TOPIC IN POETRY AND POETICS**

3 credits.

An exploration of some aspect of poetic theory and practice, generally in terms of the shorter verse forms, and the application of practical criticism to an appropriate body of literature written in English. Content varies.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2004

**ENGL 571 – REMIX, MASHUP, AND DIGITAL DESIGN**

3 credits.

Emerging technologies, from the Internet to computational machines, reshape how we read, write, and think. This course explores the significance of these new media technologies, how scholars have theorized digital writing, and how writing can be "remixed" with the use of digital technologies. Students in this course produce essays and then remix those essays using various digital technologies, transforming their writing into various forms, including graphic essays, video compositions, audio compositions, and computational media such as video games.

**Requisites:** Communications A

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ENGL 572 – SMART MEDIA & CRITICAL INFORMATION DESIGN**

3 credits.

Class focuses on "smart media" or emerging genres of scholarly communication, such as digital storytelling, theory comix, podcasts, Pecha Kucha, and interactive installations.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**ENGL/THEATRE 575 – BRITISH DRAMA, 1914 TO PRESENT**

3 credits.

Plays and playwrights from the first World War to the present, including movements leading to the "revolt" of 1956 and subsequent proletarian and absurdist drama. Plays by Shaw, O'Casey, Maugham, Coward, Eliot, Osborne, Beckett, Pinter, Stoppard, Arden, Wesker, Bond, Churchill and others.

**Requisites:** Junior standing

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**ENGL/THEATRE 576 – SURVEY: THEORIES OF DRAMA**

3 credits.

Selected major critical and theoretical sources, from Aristotle to the present day; the influences of theories upon playwriting and modes of theatrical production.

**Requisites:** Junior standing

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ENGL/THEATRE 577 – POSTCOLONIAL THEATRE: DRAMA, THEORY AND PERFORMANCE IN THE GLOBAL SOUTH**

3 credits.

Study of drama, dramatic theory and theatrical practices in postcolonial cultures, primarily in Asia, Africa and the Caribbean. Course considers status of drama/theatre in postcolonial studies and focuses on issues of form, language, intertextuality, trans-culturation, material organization and reception.

**Requisites:** Junior standing or consent of instructor

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**ENGL/THEATRE 578 – MODERN AMERICAN DRAMA AND THEATRE**

3 credits.

Representative twentieth-century plays from Glaspell and O'Neill to the present considered within contemporary cultural, theatrical and academic context.

**Requisites:** Junior standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENGL/JEWISH 593 – LITERATURE OF JEWISH IDENTITY IN AMERICA**

3 credits.

The construction of Jewish American identity within American life.

**Requisites:** 6 credits of introductory literature**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENGL/HIST SCI/MED HIST 599 – DIRECTED STUDY IN HEALTH AND THE HUMANITIES**

1 credit.

Offers students enrolled in the Health and the Humanities certificate an opportunity to conduct independent research under the guidance of a faculty member. It allows students who have enrolled in or completed HIST SCI/MED HIST/ENGL 525: Health and the Humanities Capstone an opportunity to go into greater depth on a topic covered in the capstone course. In consultation with a faculty member, students will design a project that builds on lessons learned or work completed as part of their capstone experience.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**ENGL 613 – TESOL: PEDAGOGICAL GRAMMAR I**

1 credit.

A focus on understanding English grammar from a pedagogical perspective for the purpose of teaching English as a second or foreign language.

**Requisites:** English 415 completed Fall 2014 or later, English 334 completed prior to Fall 2014, or consent of instructor**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**ENGL 614 – TESOL: PEDAGOGICAL GRAMMAR II**

1 credit.

A focus on understanding English grammar from a pedagogical perspective for the purpose of teaching English as a second or foreign language. The emphasis is on theory and techniques applicable to teaching English grammar.

**Requisites:** English 415 completed Fall 2014 or later, English 334 completed prior to Fall 2014, or consent of instructor**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**ENGL 615 – TESOL: TEACHING LISTENING AND SPEAKING**

1 credit.

An overview of listening and speaking skills and how to teach them.

**Requisites:** English 415 completed Fall 2014 or later, English 334 completed prior to Fall 2014, or consent of instructor**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**ENGL 616 – TESOL: TEACHING OF READING**

1 credit.

An overview of reading and vocabulary skills and how to teach them.

**Requisites:** English 415 completed Fall 2014 or later, English 334 completed prior to Fall 2014, or consent of instructor**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENGL 617 – TESOL: TEACHING OF WRITING**

1 credit.

Practical modular workshop on key aspects of language teaching, stressing the application of techniques and theory to classroom needs.

**Requisites:** English 415 completed Fall 2014 or later, English 334 completed prior to Fall 2014, or consent of instructor**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**ENGL 618 – TESOL: TEACHING PRONUNCIATION**

1 credit.

An overview of the features of English pronunciation and how to teach them.

**Requisites:** English 415 completed Fall 2014 or later, English 334 completed prior to Fall 2014, or consent of instructor

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENGL 622 – TOPICS IN ENGLISH: STUDY ABROAD**

1-6 credits.

A course carried with a UW-Madison Study Abroad Program which has no equivalent on this campus.

**Requisites:** Current registration in a UW-Madison study abroad program

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ENGL/AFROAMER 672 – SELECTED TOPICS IN AFRO-AMERICAN LITERATURE**

3 credits.

An intensive analysis of specific themes in the Afro-American experience. Subjects vary with instructor. Students wanting credit in English must have 6 credits of introductory literature

**Requisites:** Junior standing.

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**ENGL 680 – HONORS PROJECT**

3 credits.

For further information, consult the department's Honors Coordinator or Undergraduate Advisor.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ENGL 681 – SENIOR HONORS THESIS IN THE MAJOR**

3 credits.

For further information, consult the department's Honors Coordinator.

**Requisites:** Completion of English 481 consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENGL 682 – SENIOR HONORS THESIS IN THE MAJOR**

3 credits.

Continuation of 681

**Requisites:** Completion of English 681

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENGL 691 – SENIOR THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENGL 692 – SENIOR THESIS**

3 credits.

**Requisites:** Completion of English 691

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ENGL 695 – DIRECTED CREATIVE WRITING**

3 credits.

Individually directed writing of a poetry or fiction manuscript.

**Requisites:** Senior creative writing majors with 9 credits of 300-level creative writing (English 300, 301, 302, 303, 305, 307), or consent of director of Creative Writing Program

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENGL 699 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Junior or Senior standing; previous or concurrent work at intermediate level in same subject; consent of instructor specific dept advisor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENGL 700 – INTRODUCTION TO COMPOSITION STUDIES**

3 credits.

Rhetorical, linguistic, psychological, and social foundations of writing; implications for instruction.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENGL 701 – WRITING AND LEARNING**

3 credits.

Historical, critical and philosophical perspectives on the relationship between writing and learning. In addition to reviewing current research, students will have the opportunity to carry out their own investigation designed to study possible relationships between writing and learning.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENGL 702 – PERSPECTIVES ON LITERACY**

3 credits.

Social, historical, and educational perspectives on literacy and literacy learning.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**ENGL 703 – RESEARCH METHODS IN COMPOSITION STUDIES**

3 credits.

Introduction to quantitative and qualitative research methods in composition studies.

**Requisites:** English 700 or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENGL/COM ARTS 704 – INTELLECTUAL SOURCES OF CONTEMPORARY COMPOSITION THEORY I-CLASSICAL**

3 credits.

Selected issues in the history of rhetoric, concentrating on classical theories of invention, and their importance for contemporary issues in composition theory.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**ENGL 705 – INTELLECTUAL SOURCES OF CONTEMPORARY COMPOSITION THEORY II-MODERN**

3 credits.

Historical, critical, and philosophical perspectives on the development of composition studies during the modern era, with special emphasis on the 20th Century.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**ENGL 706 – SPECIAL TOPICS IN COMPOSITION THEORY**

3 credits.

In-depth treatment of specific problems, questions, themes, authors, texts, or historical periods in composition and rhetoric. Subject will differ each year.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ENGL 708 – ADVANCED ENGLISH SYNTAX**

3 credits.

Modern syntactic theory applied to selected areas of English grammar, including the interface between syntax and the lexicon, and morphology.

**Requisites:** English 329 or LINGUIS 330 or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENGL 709 – ADVANCED ENGLISH PHONOLOGY**

3 credits.

Problems of English segmental and suprasegmental phonology, including morphophonemic alterations and stress assignment.

**Requisites:** English 330 or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENGL/SOC 710 – INTERACTION ANALYSIS: TALK AS SOCIAL ORGANIZATION**

3 credits.

The study spoken English as a site for social organization. Theoretical foundations and methodological practices for conversation analysis will be explored using videotaped data from English. Content includes current critical trends in analyzing interaction as well as cross-cultural and cross-linguistic perspectives.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**ENGL 711 – RESEARCH METHODS IN APPLIED LINGUISTICS**

3 credits.

An introduction to various research paradigms in applied linguistics and second language acquisition. A preparation for critically evaluating published research in applied linguistics and second language acquisition.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015

**ENGL 712 – ADVANCED PLACEMENT SEMINAR FOR HIGH SCHOOL TEACHERS**

1-3 credits.

A seminar for high school advanced placement English courses, providing a workshop for sharing techniques and defining pedagogical objectives for AP courses.

**Requisites:** High school teachers or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2010

**ENGL 713 – TOPICS IN CONTEMPORARY ENGLISH LINGUISTICS**

3 credits.

Subject differs each year.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENGL 715 – ADVANCED SECOND LANGUAGE ACQUISITION**

3 credits.

An examination of linguistic, psychological, and sociological theories of second language acquisition and their application to research in syntax, phonology, lexicon, or pragmatics of a second language.

**Requisites:** English 333 or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENGL 719 – SUMMER WRITING WORKSHOP**

1-3 credits.

A writing workshop for high school teachers or other post-baccalaureate students. May be used to satisfy program requirements only by permission of relevant program adviser

**Requisites:** Graduate standing, Special student, or consent of instructor.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**ENGL 722 – COMPOSITION AND CRITICAL THEORIES**

3 credits.

Study of the relationship between composition and critical theories.

**Requisites:** English 700, Graduate standing consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**ENGL/THEATRE 731 – ADVANCED THEATRE HISTORY 500 BC TO 1700**

3 credits.

Problems of scholarship in the dramatic, performance and staging practices of major traditions of world theatre history between 500 BCE and 1700 including the theatres of ancient Greece and Rome; medieval, Renaissance and early modern Europe; and the Muromachi and Tokugawa eras in Japan.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENGL/THEATRE 732 – ADVANCED THEATRE HISTORY 1700 TO PRESENT**

3 credits.

Problems of scholarship in the dramatic, performance and staging practices of major traditions of world theatre history since 1700, including melodrama, naturalism, the avant-garde, and other movements that helped shaped contemporary theatre.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**ENGL/GEN&WS 737 – FEMINIST THEORY AND CRITICISM**

3 credits.

Feminist theory, with an emphasis on literary and cultural theory and criticism in English.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ENGL 780 – CREATIVE WRITING: GRADUATE WORKSHOP**

3 credits.

The course provides professional training in the writing of fiction, poetry, or creative non-fiction. The topic of the course will vary from semester to semester. Graduate or LS9 standing

**Requisites:** Submission of writing sample to instructor before registration.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**ENGL 781 — GRADUATE FICTION WORKSHOP**

3 credits.

Graduate level fiction workshop for MFA creative writing students. Open to other graduate students by submission of writing sample. Students write short stories and novel chapters, critique the work of fellow students and read contemporary fiction.

**Requisites:** Admission to the MFA in creative writing or permission of director of creative writing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENGL 782 — GRADUATE POETRY WORKSHOP**

3 credits.

Graduate level poetry workshop for MFA creative writing students. Open to other graduate students by submission of writing sample. Students write poems, critique the work of fellow students and read contemporary poetry.

**Requisites:** Admission to the MFA in creative writing or permission of director of creative writing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENGL 783 — CREATIVE WRITING PEDAGOGY SEMINAR**

3 credits.

Graduate level course in creative writing pedagogy required of all incoming MFA in creative writing students.

**Requisites:** Admission to the MFA in creative writing or permission of director of creative writing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENGL 785 — MFA THESIS**

3-6 credits.

Thesis hours for MFA creative writing students. Students work to complete a book of short stories, poems or a novel.

**Requisites:** Admission to the MFA in creative writing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENGL 790 — PROSEMINAR IN THE TEACHING OF WRITING**

1 credit.

Introduction to the teaching of writing; guides first-time and prospective teachers in teaching and evaluating a first-year writing class.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENGL 795 — ONE-CREDIT SEMINAR**

1 credit.

Subject differs each semester.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENGL 799 — INDEPENDENT READING**

1-6 credits.

**Requisites:** Consent of English Graduate advisor director of English Graduate division

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENGL 800 — CRITICAL METHODS IN LITERARY STUDIES**

3 credits.

A gateway course that introduces students to theories and methods that are important to literary studies.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ENGL/MEDIEVAL 803 — TOPICS IN MEDIEVAL LITERATURE**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENGL 804 — TOPICS IN EARLY MODERN LITERATURE**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ENGL 805 — TOPICS IN EIGHTEENTH-CENTURY LITERATURE**

3 credits.

Selected works, with an emphasis on literary and cultural background.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016



**ENGL 806 – TOPICS IN ROMANTICISM**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENGL 807 – TOPICS IN VICTORIAN LITERATURE AND CULTURE**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**ENGL 808 – TOPICS IN MODERNISM**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**ENGL 809 – TOPICS IN BRITISH AND ANGLOPHONE LITERATURE AND CULTURE SINCE 1900**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2008

**ENGL 810 – TOPICS IN EARLY AMERICAN LITERATURE**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**ENGL 811 – TOPICS IN NINETEENTH-CENTURY AMERICAN LITERATURE AND CULTURE**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ENGL 812 – TOPICS IN AMERICAN LITERATURE SINCE 1900**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2014

**ENGL 813 – WORLD AND/OR POSTCOLONIAL LITERATURE IN ENGLISH**

3 credits.

Literatures in English with origins outside Britain and the United States; theories and/or histories in postcolonial, Anglophone, and/or world literatures in English. Topics will vary.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENGL 814 – TOPICS IN CONTEMPORARY LITERATURE**

3 credits.

Topics will vary.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**ENGL 816 – TOPICS IN ETHNIC AND MULTICULTURAL LITERATURE**

3 credits.

Topics will vary.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**ENGL 817 – SEMINAR-AMERICAN LITERATURE**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENGL 820 – TOPICS IN POETRY**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ENGL 822 – TOPICS IN LITERARY AND CULTURAL THEORY**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015



**ENGL 825 – TOPICS IN LITERATURE AND THE ENVIRONMENT**

3 credits.

Topics will vary.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**ENGL 826 – TOPICS IN DIGITAL STUDIES**

3 credits.

Topics will vary.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**ENGL 828 – TOPICS IN MATERIAL CULTURE**

3 credits.

Topics will vary.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**ENGL 829 – TOPICS IN MIGRATION AND DIASPORA**

3 credits.

Topics will vary.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**ENGL 830 – TOPICS IN PRINT CULTURE AND HISTORY OF THE BOOK**

3 credits.

Topics will vary.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**ENGL 850 – PROSEMINAR IN THEATRE RESEARCH**

3 credits.

Provides a foundation for postgraduate theatre and performance research by examining the methods used in the study of theatre and performance. It considers how criticism, theory, historiography and other methods have been employed in analysis of performance. It also discusses professional issues around working in theatre and performance studies as a teacher, scholar, dramaturge or applied theatre practitioner.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENGL 859 – SEMINAR-INTERDISCIPLINARY THEATRE STUDIES**

2-3 credits.

A seminar in topics related to advanced research in theatre and performance studies. Topics vary by semester.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENGL 879 – ADVANCED SEMINAR IN LITERARY STUDIES**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ENGL 900 – TOPICS IN COMPOSITION STUDY**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**ENGL 905 – SEMINAR-TOPICS IN APPLIED ENGLISH LINGUISTICS**

3 credits.

Topics vary.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ENGL 906 – SEMINAR-THE ENGLISH LANGUAGE**

3 credits.

Intensive study of an aspect of the English language. Topics vary from semester to semester.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**ENGL 990 – DISSERTATION RESEARCH IN ENGLISH**

1-12 credits.

In connection with the doctoral thesis. Consult graduate advisor.

**Requisites:** Graduate standing consent of PhD advisor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**ENGL 999 – INDEPENDENT READING FOR PHD PRELIMS**

1-12 credits.

Consult graduate advisor. English course requirements: consult English department PhD advisor

**Requisites:** Completion of PhD.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## ENGLISH AS A SECOND LANGUAGE (ESL)

**ESL 110 – INTENSIVE ENGLISH AS A SECOND LANGUAGE**

4-6 credits.

Fall and Spring, 6 credits; Summer, 4 credits. Listening, speaking, reading, and writing skills for nonnative speakers of English; academically oriented. Not open to auditors. Does not count toward graduation requirements. Open to Freshmen

**Requisites:** Consent of program director.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ESL 113 – ESSENTIALS OF ACADEMIC READING AND WRITING**

3 credits.

Improvement of listening, speaking, reading, writing and grammar skills that are essential in an academic setting. Introduction to the expectations for an undergraduate at a U.S. university. For undergraduate students that are non-native speakers of English.

**Requisites:** Enrolled in the International Student Summer Institute

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**ESL 114 – INTERMEDIATE ENGLISH LANGUAGE SKILLS**

3 credits.

Semi-intensive course in intermediate English language skills. This multi-skills course focuses on reading, writing, and communication skills essential in an academic setting. Does not count toward graduation requirements. Not open to auditors. Open to Fr

**Requisites:** ELS Assessment Test (ESLAT) required; info at 5134 White Hall.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ESL 115 – GRAMMAR FOR ACADEMIC USE**

3 credits.

A review of English grammar through intensive written and oral practice to promote accurate and appropriate language use for students who have already studied grammar extensively and need to refine the ability to produce acceptable academic English. Does not count toward graduation requirements. Not open to auditors. Open to Freshmen

**Requisites:** ESL Assessment Test (ESLAT) required; info at 5134 White Hall.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ESL 116 – ACADEMIC READING AND VOCABULARY SKILLS**

3 credits.

Reading strategies for academic work; reading with increased comprehension and speed, vocabulary expansion, and summary writing. Does not count toward graduation requirements. Not open to auditors.

Open to Freshmen

**Requisites:** ESL Assessment Test (ESLAT) required; information at 5134 White Hall.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ESL 117 – ACADEMIC WRITING I**

3 credits.

Basic elements of academic writing, emphasizing improved fluency and accuracy, paragraph structure, summarizing and paraphrasing, short essays, and a final research project. Does not count toward graduation requirements. Not open to auditors. Open to Freshmen

**Requisites:** ESL Assessment Test (ESLAT) required; information at 5134 White Hall.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ESL 118 – ACADEMIC WRITING II**

3 credits.

Fulfills the undergraduate Communication requirement, Part A. Academic writing, critical reading and argumentation, documentation, and style and organization of research papers; oral communication skills for effective class participation and presentations. Not open to auditors. Open to Freshmen. Students may receive degree credit for only one Com A course taken in residence

**Requisites:** ESL Assessment Test (ESLAT) required; information at 5134 White Hall.

**Course Designation:** Gen Ed - Communication Part A Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ESL 328 – ACADEMIC SKILLS WORKSHOPS**

1-3 credits.

Academic skills for ESL students; workshops (15 hours each) on skills required for effective academic communication; topics vary, but include general and discipline-specific academic skills. Does not count toward graduation requirements. Not open to auditors

**Requisites:** Graduate standing or consent of program director.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ESL 343 – ORAL COMMUNICATION SKILLS**

3 credits.

Practice in formal and informal communication skills, including listening comprehension, pronunciation, and conversational and presentation skills useful in an academic setting. Does not count toward graduation requirements. Not open to auditors. Open to Freshmen

**Requisites:** ESL Assessment Test (ESLAT) required; information at 5134 White Hall.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ESL 344 – ACADEMIC PRESENTATIONS AND DISCUSSION**

2-3 credits.

Fall and Spring, 3 credits; Summer, 2 credits. Oral communication and presentation skills essential for participation in seminars, conferences, and other academic and professional settings.

**Requisites:** Graduate standing or consent of ESL program director**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ESL 345 – AMERICAN ENGLISH PRONUNCIATION**

1 credit.

Techniques for improvement of the pronunciation of American English for non-native speakers of English.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**ESL 349 – ACADEMIC WRITING FOR GRADUATE STUDENTS**

2-3 credits.

Aspects of research writing, including data presentation, literature review, summarizing, critical summarizing, and discussion. Grammar and editing skills are also emphasized.

**Requisites:** Graduate standing or consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ESL 350 – PROFESSIONAL AND ACADEMIC WRITING SKILLS**

2-3 credits.

Fall and Spring, 3 credits; Summer, 2 credits. Students work on writing projects in their own fields, such as dissertations and theses, research reports, or articles for publication. In addition, general academic writing skills, documentation and genre-specific style are covered.

**Requisites:** Graduate standing**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ESL 352 – ENGLISH FOR LAWYERS**

3 credits.

This course is designed to help law students who are non-native speakers of English improve their reading, writing, listening and speaking skills. Students will have the opportunity to express their ideas both formally and informally in small and large group discussions and to produce formal written work.

**Requisites:** None**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ESL 370 – INTERNATIONAL TA TRAINING**

2 credits.

This course focuses on the communication skills, classroom culture, and teaching strategies essential for effective classroom teaching at an American university.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENTOMOLOGY (ENTOM)****ENTOM 1 – COOPERATIVE EDUCATION/CO-OP IN ENTOMOLOGY**

1 credit.

Full-time off-campus work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career. Students receive credit only for the term in which they are actively enrolled and working. The same work experience may not count towards credit in ENTOM 399.

**Requisites:** So st, and consent of supervising instructor and academic advisor.**Repeatable for Credit:** Yes, unlimited number of completions**ENTOM/AGROECOL/AGRONOMY/C&E SOC/ENVIR ST 103 – AGROECOLOGY: AN INTRODUCTION TO THE ECOLOGY OF FOOD AND AGRICULTURE**

3 credits.

Agroecology has blossomed across the world in recent decades as not only a science, but also a practice, and a movement. This course will challenge students to employ the multiple disciplines and perspectives that Agroecology affords to analyze our agricultural and food systems within a broader context of dynamic social and ecological relationships.

**Requisites:** None**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENTOM/ENVIR ST 201 – INSECTS AND HUMAN CULTURE-A SURVEY COURSE IN ENTOMOLOGY**

3 credits.

Importance of insects in man's environment, emphasizing beneficial insects, disease carriers, and agricultural pests that interfere with man's food supply. Environmental problems due to insect control agents.

**Requisites:** Open to Fr**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ENTOM/AGRONOMY/NUTR SCI 203 – INTRODUCTION TO GLOBAL HEALTH**

3 credits.

Introduces students to global health concepts through multidisciplinary speakers dedicated to improving health through their unique training. It targets students with an interest in public health and those who wish to learn how their field impacts their global issues.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENTOM 289 – HONORS INDEPENDENT STUDY**

1-2 credits.

Inter-Ag 288

**Requisites:** Enrolled in the CALS Honors Program Sophomore or Junior standing.**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2005**ENTOM 299 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Open to Freshmen, Sophomore or Junior standing prior written consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ENTOM/ZOOLOGY 302 – INTRODUCTION TO ENTOMOLOGY**

4 credits.

Principles including morphology and classification; a general collection of insects required of each student.

**Requisites:** An elem course in zoology**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENTOM 321 – PHYSIOLOGY OF INSECTS**

3 credits.

Anatomy, histology and basic physiology of organ systems in insects.

**Requisites:** ENTOM/ZOOLOGY 302 or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ENTOM 331 – TAXONOMY OF MATURE INSECTS**

4 credits.

Principles of taxonomy, identification and taxonomic morphology of adult insects.

**Requisites:** Entomol/Zool 302**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENTOM 342 – INSECT ECOLOGY**

3 credits.

Ecology of insects as individuals, populations, and components of communities and ecosystems. Emphasis on interactions of insects with their biotic and abiotic environment.

**Requisites:** Entom/Zool 302 or course in zool; MATH 112 or equiv**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2010**ENTOM/M M & I/PATH-BIO/ZOOLOGY 350 – PARASITOLOGY**

3 credits.

The biology of water-borne, food-borne, soil-borne and vector-borne parasites of animals including humans. Parasites are explored in the context of transmission, associated disease, diagnosis and treatment options, and environmental, cultural and socioeconomic drivers of disease epidemiology.

**Requisites:** BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102, or BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 152 or ZOOLOGY 153, or BIOCORE 381**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENTOM 351 – PRINCIPLES OF ECONOMIC ENTOMOLOGY**

3 credits.

Major economic insects: identification, life histories, bionomics, distribution, control; procedures in fundamental and practical inquiry.

**Requisites:** Intro course in zoology**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ENTOM/AGRONOMY/HORT/PL PATH/SOIL SCI 354 – DIAGNOSING AND MONITORING PEST AND NUTRIENT STATUS OF FIELD CROPS**

1 credit.

This course is designed to provide students with information necessary to diagnosis and monitor corn, soybean, alfalfa and wheat for pests (insects, weeds, diseases) and nutrient deficiency symptoms including perspectives from Agronomy, Entomology, Horticulture, Plant Pathology and Soil Science. Proper soil and pest sampling information will be provided as will proper crop staging techniques which are essential for pest and nutrient management.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENTOM/ZOOLOGY 371 – MEDICAL ENTOMOLOGY**

3 credits.

Arthropods of medical and veterinary importance, how they affect their hosts and transmit diseases.

**Requisites:** Intro course in zool or vet sci**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENTOM 375 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Cons inst**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ENTOM 399 – COORDINATIVE INTERNSHIP/COOPERATIVE EDUCATION**

1-8 credits.

**Requisites:** So, Jr or Sr st cons supervising inst, advisor, and internship program coordinator**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**ENTOM 400 – STUDY ABROAD IN ENTOMOLOGY**

1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. W.-Madison Study Abroad Program

**Requisites:** Current registration in a U.**Repeatable for Credit:** Yes, unlimited number of completions**ENTOM 432 – TAXONOMY AND BIONOMICS OF IMMATURE INSECTS**

4 credits.

Lectures on anatomy/morphology, taxonomy, bionomics of immature insects (ordinal and familial levels). Ametabola, Paleoptera, Plecoptera, Trichoptera not covered in lecture (will be examined in lab). Labs emphasize utilizing taxonomix keys for identification (order and family). Required field trips and collection.

**Requisites:** ENTOM/ZOOLOGY 302 or equiv, or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENTOM 450 – BASIC AND APPLIED INSECT ECOLOGY**

3 credits.

Basic and Applied Insect Ecology is advanced course in population and community ecology, plant-insect interactions, insect biodiversity and biogeography, and applied ecology. The course will weave basic ecological theory and principles with their application to entomological problems such as conservation, biological control, agriculture, and insect-vectored diseases of plants and humans. We will use the current entomological and ecological scientific literature and draw on examples from a broad range of natural and managed ecosystems. As the semester progresses, the scope of the lectures and literature will broaden from pairwise species interactions (e.g., a predator and its prey) to the entire community of organisms and their physical environment. Lectures are designed to emphasize the theoretical principles and historical background underlying the various topics with a link to potential applications in agriculture, conservation, pest management, and/or invasion biology.

**Requisites:** BIOLOGY/BOTANY/ZOOLOGY 151 152 or consent of instructor**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ENTOM 451 – BASIC AND APPLIED INSECT ECOLOGY LABORATORY**

1 credit.

Basic and Applied Insect Ecology Laboratory/Discussion is the companion course for the lecture-based Basic and Applied Insect Ecology (Entomology 450). This course will include hands-on experiences such as labs, field trips, computer exercises, and discussions based on readings in the primary literature to enhance and delve into more details on materials introduced in the course lectures.

**Requisites:** Concurrent or previous enrollment in Entomology 450, consent of instructor for undergraduates

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENTOM 468 – STUDIES IN FIELD ENTOMOLOGY**

3 credits.

Period of intensive field work (2 weeks) outside Madison area. Concentration on structural, behavioral adaptations of insects to diverse habitats; dynamic relations between insects and plants, other animals and other insects. Student field project, literature review presentation required. (Recommended ecology course ENTOM 331 or 432)

**Requisites:** ENTOM/ZOOLOGY 302, Junior standing, and consent of instructor.

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

**ENTOM/BOTANY/ZOOLOGY 473 – PLANT-INSECT INTERACTIONS**

3 credits.

Multiple ways in which arthropods exploit plants, plant traits that deter or augment insects, environmental mediation of these interactions, effects on population dynamics, community ecology and co-evolution, and implications to natural resource management, environmental quality, and sustainable development.

**Requisites:** One of the following: Bot/For/Zoo 460, Ent/PI Path/For 500, PI Path/Bot 505, Forestry 550, or ENTOM 342

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ENTOM/F&W ECOL 500 – INSECTS IN FOREST ECOSYSTEM FUNCTION AND MANAGEMENT**

2 credits.

Roles of insects in the functioning of healthy forest ecosystems, tactics for addressing challenges they pose to sustainable natural resource management, and emerging issues such as biological invasions, habitat alteration, and climate change that influence interactions among insects, their microbial associates, forests, and humans.

**Requisites:** BOTANY/BIOLOGY/ZOOLOGY 151 152 or equivalent

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**ENTOM/BOTANY/PL PATH 505 – PLANT-MICROBE INTERACTIONS: MOLECULAR AND ECOLOGICAL ASPECTS**

3 credits.

Molecular and ecological aspects of the interactions between plants and microorganisms. This course explores many of the themes, from genetic to integrative, of modern biology, and illustrates how study of plant-microbe interactions contributes to understanding of fundamental plant science. g. Bact 303); biochem (e.g. BIOCHEM 501); genetics (e.g. GENETICS 466) or cons inst

**Requisites:** An upper level crse in microbiol (e.

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENTOM/ZOOLOGY 530 – INSECT BEHAVIOR**

3 credits.

Comparative behavior of insects. Function and evolution.

**Requisites:** ENTOM/ZOOLOGY 302 or equiv; Zool 330 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**ENTOM/ZOOLOGY 540 – THEORETICAL ECOLOGY**

3 credits.

Introduction to theoretical ecology, including hands-on experience in computer modeling. For students with ecology background; does not require a strong math background. 3-credit option requires project and consent of instructor.

**Requisites:** 1 year calculus, Zoo/Bot 260, Zoo/Bot/For 460 or equiv, Jr st

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016



**ENTOM 601 – SEMINAR IN METHODS OF SCIENTIFIC ORAL PRESENTATIONS**

1 credit.

Training for the presentation of short talks.

**Requisites:** Senior standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**ENTOM/F&W ECOL/M&ENVTOX/PL PATH/SOIL SCI 606 – COLLOQUIUM IN ENVIRONMENTAL TOXICOLOGY**

1 credit.

Current topics in molecular and environmental toxicology and problems related to biologically active substances in the environment. Topics vary each semester. Lectures are by resident and visiting professors and other researchers.

**Requisites:** Biology/ZOOLOGY/BIOLOGY 101, Biology/BOTANY/BIOLOGY 130, or equivalent**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**ENTOM/GENETICS/ZOOLOGY 624 – MOLECULAR ECOLOGY**

3 credits.

Basic principles of molecular ecology. Lecture topics include population genetics, molecular phylogenetics, rates and patterns of evolution, genome evolution, and molecular ecology.

**Requisites:** BOTANY/GENETICS/ZOOLOGY 466, GENETICS 467 or BIOCORE 383 or graduate student standing**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENTOM/AGRONOMY/F&W ECOL/M&ENVTOX 632 – ECOTOXICOLOGY: THE CHEMICAL PLAYERS**

1 credit.

Introduction to natural and man-made toxins/toxicants, their distribution, transport, and fate in the environment. Includes lectures, current research presentations, and discussions.

**Requisites:** 2 sem intro biol 1 sem organic chem, or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENTOM/AGRONOMY/F&W ECOL/M&ENVTOX 633 – ECOTOXICOLOGY: IMPACTS ON INDIVIDUALS**

1 credit.

Addresses absorption, biotransformation, elimination of toxins in a wide variety of taxa (plants, invertebrates, vertebrates), and includes lectures, current research presentations, and discussions.

**Requisites:** MEnvTox 632, or 2 sem intro biol MEnvtox 631, or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENTOM/AGRONOMY/F&W ECOL/M&ENVTOX 634 – ECOTOXICOLOGY: IMPACTS ON POPULATIONS, COMMUNITIES AND ECOSYSTEMS**

1 credit.

Focuses on the impact of toxicants on populations, communities, ecosystems, and includes risk evaluation. Includes lectures, current research presentations, and discussions.

**Requisites:** MEnvTox 633, or MEnvTox 625, 626 631, or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENTOM 681 – SENIOR HONORS THESIS**

2-4 credits.

**Requisites:** Honors candidacy**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** No**Last Taught:** Fall 2014**ENTOM 682 – SENIOR HONORS THESIS**

2-4 credits.

Continuation of 681.

**Requisites:** Honors program candidacy ENTOM 681**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** No**Last Taught:** Spring 2015**ENTOM 691 – SENIOR THESIS**

2 credits.

**Requisites:** Senior standing consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2016**ENTOM 699 – SPECIAL PROBLEMS**

1-4 credits.

**Requisites:** Cons inst Sr st**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ENTOM 701 – ADVANCED TAXONOMY**

3 credits.

**Requisites:** ENTOM 331 and cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016

**ENTOM/F&W ECOL 711 – MULTIVARIATE ANALYSIS OF ECOLOGICAL AND COMMUNITY DATA**

2 credits.

This course will examine some common methods of multivariate data analysis in ecology and environmental science. Often called "community data analysis," this class will cover methods for the analysis of complex, multidimensional datasets that are collected in the study of plant, invertebrate, fish, and bird communities. We will also address the concurrent analysis of the environmental factors that may drive community distributions. All of this provides the basis for predictive modeling of distributions across landscapes. General methods we will cover include ordination (PCA, DCA, NMDS, CCA), clustering (or classification), and other comparative analyses of data matrices (ANOSIM, Mantel tests). The "class" (better called a "workshop") is designed to be applied, meaning that the objective is for students to learn in a "hands-on" way how to use these tools, and the circumstances under which their uses are either appropriate or inappropriate.

**Requisites:** Students must have Stats 571 or 572 to enroll, if a student feels that they have an equivalent background, they must get permission of the instructor to enroll

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**ENTOM 799 – PRACTICUM IN ENTOMOLOGY TEACHING**

1-3 credits.

Instructional orientation to teaching at the higher education level in the agricultural life sciences, direct teaching experience under faculty supervision, experience in testing and evaluation of students, and the analysis of teaching performance.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENTOM 801 – COLLOQUIUM**

1 credit.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENTOM/BOTANY/GENETICS/ZOOLOGY 820 – FOUNDATIONS OF EVOLUTION**

2 credits.

Through reading and analysis of the primary literature, this course will explore some of the most important themes and debates that have permeated evolutionary biology over the last 50 years. Students will read key papers related to each controversial topic, will debate the pros and cons of competing viewpoints, and will reflect on the relevance of the issues to contemporary evolutionary biology. Students will also write a paper that analyzes one topic in more detail. This course is intended for graduate students who plan to specialize in evolutionary biology, broadly construed.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENTOM 875 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENTOM 901 – SEMINAR IN ORGANISMAL ENTOMOLOGY**

1 credit.

Presentations from the original literature on developments in natural products chemistry, biochemistry, physiology, developmental biology and/or ultrastructure of insects.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**ENTOM 903 – SEMINAR IN EVOLUTIONARY ENTOMOLOGY**

1 credit.

Presentation from the original literature on developments in the evolution, ecology, behavior and/or systematics of insects.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2010

**ENTOM 905 – SEMINAR IN APPLIED ENTOMOLOGY**

1 credit.

Presentations from the original literature on developments in integrated pest management, insect-plant interactions medical entomology, and/or insect pathology.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2011

**ENTOM/PSYCH/ZOOLOGY 950 – INTERDISCIPLINARY SEMINAR IN ANIMAL BEHAVIOR**

1 credit.

Research methods in animal behavior studies in many disciplines.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

**ENTOM/AGRONOMY/ATM OCN/BOTANY/ENVIR ST/F&W ECOL/GEOG/ZOOLOGY 953 – INTRODUCTION TO ECOLOGY RESEARCH AT UW-MADISON**

1-2 credits.

This seminar course will introduce new graduate students to the diversity of ecologists across the UW-Madison campus. Course meetings will include discussions of key topics in professional development, research presentations by faculty members, and discussions of assigned papers with senior graduate students.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENTOM 990 – GRADUATE RESEARCH AND THESIS**

1-12 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## ENVIRONMENTAL STUDIES - GAYLORD NELSON INSTITUTE (ENVIR ST)

**ENVIR ST/SOIL SCI 101 – FORUM ON THE ENVIRONMENT**

1-2 credits.

Lectures and discussions about environmental issues. Historical and contemporary environmental impacts of humans on the biosphere. Global futures: population, technology, societal values, resources and prospects for sustainable management.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Either Social Science or Natural Science Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ENVIR ST/ATM OCN/GEOSCI 102 – CLIMATE AND CLIMATE CHANGE**

3 credits.

This course describes the basic climate principles governing the climate system. It describes the climate and climate variability at present, climate evolution in the past, and the projected climate change into the future.

The scientific principles underlying the natural and anthropogenic greenhouse effect and climate model forecasts are elucidated.

**Requisites:** None

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**ENVIR ST/AGROECOL/AGRONOMY/C&E SOC/ENTOM 103 – AGROECOLOGY: AN INTRODUCTION TO THE ECOLOGY OF FOOD AND AGRICULTURE**

3 credits.

Agroecology has blossomed across the world in recent decades as not only a science, but also a practice, and a movement. This course will challenge students to employ the multiple disciplines and perspectives that Agroecology affords to analyze our agricultural and food systems within a broader context of dynamic social and ecological relationships.

**Requisites:** None

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENVIR ST/GEOSCI 106 – ENVIRONMENTAL GEOLOGY**

3 credits.

Application of geology to problems resulting from the ever more intense use of the earth and its resources. Lecture and discussion. Open to Fr

**Requisites:** Not open to those who have had Geosci 101, 100, or 109.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENVIR ST 112 – ENVIRONMENTAL STUDIES: THE SOCIAL PERSPECTIVE**

3 credits.

Importance of social factors in the generation and resolution of complex environmental problems with an interdisciplinary perspective. Comparison of specific communities in the more and less developed areas of the world.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENVIR ST 113 – ENVIRONMENTAL STUDIES: THE HUMANISTIC PERSPECTIVE**

3 credits.

Environmental problems as approached by philosophy, literature, fine arts, history of science, and anthropology. Reflections on the past and present situation of our species and its relationship to the rest of nature offer suggestions toward possible alternative values for future.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**ENVIR ST/E ASIAN/LCA 115 – ENVIRONMENTAL HUMANITIES: ASIAN/PACIFIC PERSPECTIVES**

3-4 credits.

Course offers a case-based approach to environmental studies from a humanistic perspective, taking into account diverse and connected transnational systems of Asia; materials draw on themes like forests, water, disaster, war, and conservation and wildlife. Course introduces disciplines in the Environmental Humanities (literature, religion, music, etc.) through studies in tradition, theory and practice across South Asia, Southeast Asia, East Asia and ocean and Pasifik regions including Aotearoa, New Zealand. Throughout the course we ask, how are environmental worldviews cast as the basis for action and understanding in the present?

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**ENVIR ST/GEOG 120 – INTRODUCTION TO THE EARTH SYSTEM**

3 credits.

Introduces students to how the Earth system works and what makes Earth livable. Through this course you will gain a deeper appreciation for how the atmosphere, oceans, life, and earth's surface interact to shape our local, regional and global landscapes. Many students take this course to fulfill their physical science requirement. Others use it as a gateway to majors and careers in Geography, Environmental Studies, and Environmental Science.

**Requisites:** Not open to students with credit for GEOG/ENVIR ST/ GEOG 127**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENVIR ST/ATM OCN/GEOG 121 – ATMOSPHERIC ENVIRONMENT AND SOCIETY**

2 credits.

Changing interactions between humans, other animals and plants, and the atmospheric environment, both in time and space.

**Requisites:** Open to Fr**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2009**ENVIR ST/HIST SCI/HISTORY 125 – GREEN SCREEN: ENVIRONMENTAL PERSPECTIVES THROUGH FILM**

3 credits.

From Teddy Roosevelt's 1909 African safari to the Hollywood blockbuster King Kong, from the world of Walt Disney to The March of the Penguins, cinema has been a powerful force in shaping public and scientific understanding of nature throughout the twentieth and twenty-first century. How can film shed light on changing environmental ideas and beliefs in American thought, politics, and culture? And how can we come to see and appreciate contested issues of race, class, and gender in nature on screen? This course will explore such questions as we come to understand the role of film in helping to define the contours of past, present, and future environmental visions in the United States, and their impact on the real world struggles of people and wildlife throughout the world.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENVIR ST/ILS 126 – PRINCIPLES OF ENVIRONMENTAL SCIENCE**

4 credits.

This course relates principles of environmental science to our daily activities, with an eye to sustainability, conservation, and systems thinking. It introduces science as a process of inquiry and discovery rather than just a pre-established set of facts. Topics relate to energy, water, and land use, and include food, electric power, materials, buildings, transportation, and waste.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**ENVIR ST/GEOG 127 – PHYSICAL SYSTEMS OF THE ENVIRONMENT**

5 credits.

Climatic regimes, landforms, soils, waters and life forms at the earth's surface in terms of energy-transforming processes, locational patterns, and changes through time.

**Requisites:** Open to Freshmen not open to those with GEOG/ ENVIR ST 120, 123, 124, or 125 credit or ILS 132 credit

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENVIR ST/GEOG 139 – LIVING IN THE GLOBAL ENVIRONMENT: AN INTRODUCTION TO PEOPLE-ENVIRONMENT GEOGRAPHY**

3-4 credits.

This course provides an exploration of the global and local nature of environmental problems facing us, including issues of climate change, food, energy, economic globalization, deforestation and land use change, biodiversity loss, resource scarcity and access, environmental justice, and population. Through group and individual work, this course considers how we should analyze and act on environmental problems as we confront the apparently daunting scale of such issues. The theme of this course is that what appear to be single global environmental problems are actually composed of many smaller context-specific and place dependent problems or conflicts. Through an interdisciplinary and geographic perspective, these can be understood and addressed at the scale of our lived lives.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENVIR ST/ENGL 153 – LITERATURE AND THE ENVIRONMENT**

3 credits.

An introduction to literature in English about the natural world and humankind's relationship with it; specific topics will vary.

**Requisites:** None

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**ENVIR ST/ATM OCN 171 – GLOBAL CHANGE: ATMOSPHERIC ISSUES AND PROBLEMS**

2-3 credits.

Atmospheric problems of global significance. Greenhouse warming, ozone layer, acid rain, climate change. Study based on elementary principles of atmospheric science. Systems approach applied to changing atmospheric composition. Interactions among geochemical cycles, anthropogenic inputs and other parts of the environment.

**Requisites:** None

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENVIR ST 199 – DIRECTED STUDY**

1-2 credits.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2014

**ENVIR ST 200 – SPECIAL TOPICS IN ENVIRONMENTAL STUDIES**

1-4 credits.

Topics vary each term, within the scope of the environmental physical sciences. These may encompass areas such as energy systems, earth system sciences, quantitative methods for environmental analysis, and application of scientific and engineering concepts to real-world environmental issues. Open to Fr

**Requisites:** Minimum pre-calculus; concurrent enrollment in calculus recommended.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2011

**ENVIR ST/ENTOM 201 – INSECTS AND HUMAN CULTURE-A SURVEY COURSE IN ENTOMOLOGY**

3 credits.

Importance of insects in man's environment, emphasizing beneficial insects, disease carriers, and agricultural pests that interfere with man's food supply. Environmental problems due to insect control agents.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENVIR ST/MED HIST 213 – GLOBAL ENVIRONMENTAL HEALTH: AN INTERDISCIPLINARY INTRODUCTION**

3 credits.

The course provides an introduction to the intersections of health and environment on a global scale. Exposes students to a range of problems in global environmental health, including climate change, disease ecology, and the globalization of disease.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENVIR ST/GEOG/SOIL SCI 230 – SOIL: ECOSYSTEM AND RESOURCE**

3 credits.

Soils are fundamental to ecosystem science. A systems approach is used to investigate how soils look and function. Topics investigated include soil structure, biology, water, fertility, and taxonomy as well as the human impact on the soil environment.

**Requisites:** Not open to students with credits in Soil Sci 301**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENVIR ST/A A E 244 – THE ENVIRONMENT AND THE GLOBAL ECONOMY**

3 credits.

The "economic way of thinking" about global and regional environmental issues. Topics include climate change, biodiversity preservation, ocean fisheries, environmental impacts of international trade, poverty and the environment, and sustainability.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENVIR ST 250 – INTRODUCTION TO SUSTAINABILITY SCIENCE**

3 credits.

Course introduces issues connected with "Sustainability Science," the study of coupled human-natural systems with implications for resource use, human well-being, and the environment. Methods include risk assessment, life-cycle assessment, and conceptual modeling, as well as basic background on natural systems such as climate, water, and land use, and engineered systems including energy, transportation, land use, and materials.

**Requisites:** A sem of calculus or concurrent enrollment in MATH 136, 171, 211, 221 or equiv**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**ENVIR ST/BOTANY/ZOOLOGY 260 – INTRODUCTORY ECOLOGY**

3 credits.

For nonbiology students: the relationships of organisms and the environment. Population dynamics and community organization, human-environment relationships, action programs. Does not count toward Botany or Zoology major

**Requisites:** Open to Freshmen.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENVIR ST/RELIG ST 270 – ENVIRONMENT AND RELIGION**

3-4 credits.

What are sources on which members of religious communities draw in order to understand and address environmental change? This course explores how religious persons and communities confront global environmental questions and challenges today, with case studies drawn from culturally and religiously plural societies such as India and Indonesia. Introducing diverse varieties of Christianity, Islam, and Hindu and Buddhist systems, course gives overview of some approaches in the environmental humanities related to philosophy, history, sociology and anthropology, and ethics. Fulfills requirement for Environmental Studies and Religious Studies degree programs.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENVIR ST 307 – LITERATURE OF THE ENVIRONMENT: SPEAKING FOR NATURE**

3 credits.

19th and 20th century British and American literature.

**Requisites:** So st; priority given to IES certificate students**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**ENVIR ST/GEOG 309 – PEOPLE, LAND AND FOOD: COMPARATIVE STUDY OF AGRICULTURE SYSTEMS**

3 credits.

Introduction to how and why humans have transformed natural landscapes around the world, including tropical deforestation. Exploration of different agricultural systems, and topics such as food security, land scarcity, bioenergy and the impacts of food production on the environment.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017



**ENVIR ST/M H R 310 – CHALLENGES & SOLUTIONS IN BUSINESS SUSTAINABILITY**

3 credits.

This course provides students with central knowledge and skills to tackle challenges at the intersection of business and sustainability. Students will study the failures in market and decision making systems that lead to sustainability challenges, and learn how to address these challenges on the policy, organizational, and individual level.

**Requisites:** Sophomore standing**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENVIR ST/ZOOLOGY 315 – LIMNOLOGY-CONSERVATION OF AQUATIC RESOURCES**

2 credits.

General limnology. Physical, chemical and biological characteristics and processes of lakes. Environmental problems and rehabilitation of lakes.

**Requisites:** Intro course in biol; intro course in chem recommended**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENVIR ST/SOIL SCI 324 – SOILS AND ENVIRONMENTAL QUALITY**

3 credits.

Interaction of soils with environmental contaminants and the role of soils in pollution control.

**Requisites:** CHEM 103 104 or equiv; Jr st**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2017**ENVIR ST/GEOG 325 – ANALYSIS OF THE PHYSICAL ENVIRONMENT**

4 credits.

Selected associations of natural and human environments illustrative of the broad principles of physical geography. Practical application of data collection and the use of laboratory and field methods to Wisconsin examples employing quantitative and nonquantitative analytical methods; field trips; lab section.

**Requisites:** Any intro crse in phy geog or phy geol or meteor or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2010**ENVIR ST/HISTORY 328 – ENVIRONMENTAL HISTORY OF EUROPE**

3 credits.

This class explores a new approach to a part of the world with a very old history, but one that is now as 'modern' as any. The changing, complex relations between Europeans and their environments from antiquity to the twenty-first century offer instructive comparison with American and current global environmental concerns. Approaching Mediterranean and Western civilizations from an environmental viewpoint also offers fresh perspective on these enduring cultures.

**Requisites:** Sophomore Standing**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENVIR ST/ATM OCN/GEOG 332 – GLOBAL WARMING: SCIENCE AND IMPACTS**

3 credits.

Climate change is underway and will continue into the foreseeable future. This course offers a fundamental understanding of how and why global warming is happening, and what to expect in the future. Together, we will investigate and discuss the evidence for change, the science that explains these observations, predicted impacts on humans and ecosystems, and the societal debate over proposed solutions. Freshmen permitted only with consent of instructor

**Requisites:** Geog/IES 120 or 127 or Atm Ocn 100 or equivalent recommended.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENVIR ST/ATM OCN/GEOG/GEOSCI 335 – CLIMATIC ENVIRONMENTS OF THE PAST**

3 credits.

Climatic change at timescales from the last 1,000,000 years to the last 1000 years. Examines how climate variability arises from interplay between external forcings, feedbacks within the earth system, and (more recently) human activity.

**Requisites:** ENVIR ST/GEOG/ENVIR ST 120, ENVIR ST/GEOG/ENVIR ST 127, or ATM OCN 100**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ENVIR ST/GEOG 337 – NATURE, POWER AND SOCIETY**

3 credits.

Explores the links between nature, power and society in today's world. The course considers the complex relationships between humans and the earth's resources, including food, energy, physical materials, water, biota, and landscapes; it considers issues linked to population and scarcity, resource tenure, green consumerism, political economy, environmental ethics, risks and hazards, political ecology, and environmental justice. Not open to students who took Geog/Env 139 in 2010-11, 2011-12 or 2012-13.

**Requisites:** Sophomore standing.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**ENVIR ST/GEOG 339 – ENVIRONMENTAL CONSERVATION**

4 credits.

Examines major environmental conservation approaches in the U.S. and developing countries and how they are influenced by sociopolitical factors, cultural values and scientific understandings of nature. Historical and contemporary cases are explored with emphasis on biodiversity and climate change issues.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENVIR ST/A A E/ECON 343 – ENVIRONMENTAL ECONOMICS**

3-4 credits.

Microeconomic principles underlying the use of natural resources such as air, water, forests, fisheries, minerals and energy. These principles are applied in the examination of pollution control, preservation vs. development, deforestation, and other environmental issues.

**Requisites:** A A E 215, ECON 101, or ECON 111**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENVIR ST 349 – CLIMATE CHANGE GOVERNANCE**

3 credits.

Climate change is being felt, and addressed, at every level of society, from the individual to the global scale. This course examines efforts to mitigate climate change. We will learn about initiatives that are being implemented through international treaties; national, state, and municipal government policies; corporate programs; and individual behavior. We will examine the advantages and disadvantages of each approach, their successes, and the obstacles they have faced. We will also evaluate various forms of climate activism as a means of pushing for meaningful action on climate change.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENVIR ST/HIST SCI 353 – HISTORY OF ECOLOGY**

3 credits.

The development of the science of ecology and related scientific issues and social attitudes, with a primary emphasis on developments from the late nineteenth century to the present.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**ENVIR ST/HIST SCI/LCA/RELIG ST 356 – ISLAM, SCIENCE & TECHNOLOGY, AND THE ENVIRONMENT**

3-4 credits.

Survey of Muslim religious understandings of science, technology, nature and environment. Lectures and readings present a global perspective through case studies, covering sources such as the Qur'an, theology and law, and traditions of esoteric piety (mysticism), and historical and contemporary issues like medical ethics, virtual realities, and environmental change, challenge and crisis.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015

**ENVIR ST/F&W ECOL/ZOOLOGY 360 – EXTINCTION OF SPECIES**

3 credits.

A comprehensive treatment of the ecology, causes, and consequences of species extinction. Ecology and problems of individual species, habitat alteration and degradation, socio-economic pressures and conservation techniques and strategies. An intro biology course strongly recommended

**Requisites:** So st.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENVIR ST/LAND ARC 361 – WETLANDS ECOLOGY**

3 credits.

Types, origins, settings, and structure of wetlands. Physical, biological, and cultural values, uses and assessments. Physical and biological characteristics and dynamics. Protection, management and restoration. Field trips, literature review, term paper, and personal observations required.

**Requisites:** Upper class st; basic college- level biology or equiv (such as relevant physical sciences)**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENVIR ST/BSE 367 – RENEWABLE ENERGY SYSTEMS**

3 credits.

Students will learn about the state-of-the-art in renewable energy applications including biomass for heat, electric power and liquid fuels as well as geo-energy sources such as wind, solar, and hydro power. Students will do engineering calculations of power and energy availability of renewable energy sources and learn about requirements for integrating renewable energy sources into production, distribution and end-use systems.

**Requisites:** College algebra, college-level physical science course**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENVIR ST/M&ENVTOX/PL PATH 368 – ENVIRONMENTAL LAW, TOXIC SUBSTANCES, AND CONSERVATION**

2 credits.

Development of and need for "environmental law"; an introduction to the legal system; public and private rights in the environment; regulation of pesticides and toxic substances; environmental legislation and rulemaking; environmental impact statements; professionals as expert witnesses. No prior knowledge of law assumed. For scientists and others dealing with environmental issues in academia, industry and government.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**ENVIR ST/F&W ECOL/G L E/GEOG/GEOSCI/LAND ARC 371 – INTRODUCTION TO ENVIRONMENTAL REMOTE SENSING**

3 credits.

Introduction to the Earth as viewed from above, focusing on use of aerial photography and satellite imagery to study the environment. Includes physical processes of electromagnetic radiation, data types and sensing capabilities, methods for interpretation, analysis and mapping, and applications.

**Requisites:** MATH 114 Sophomore standing**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENVIR ST/F&W ECOL/G L E/GEOG/GEOSCI/LAND ARC 372 – INTERMEDIATE ENVIRONMENTAL REMOTE SENSING**

3 credits.

Examines intermediate-level concepts in information extraction, data processing and radiative transfer relevant to remote sensing of the environment. Includes transforms, image correction, classification algorithms and change detection, with emphasis on applications for land use planning and natural resource management.

**Requisites:** Envir St 301 or consent of instructor, sophomore standing**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**ENVIR ST/N E 373 – NUCLEAR ENERGY AND THE ENVIRONMENT**

3 credits.

Fission and fusion processes, nuclear reactors, power plants, radioactivity, biological effects, radiation and thermal releases, governmental regulations' impact on society.

**Requisites:** HS physics or chem; knowledge of basic biology or consent of instructor; not open to NEEP stdts**Course Designation:** Breadth - Natural Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2009

**ENVIR ST 375 – FIELD ECOLOGY WORKSHOP**

3 credits.

Lecture labs wholly in field for intensive study of behavior of plants and animals and their relationship to environments and human impacts. Individual and group observations, measurements, interpretation, reports, typing personal experience with specifics to basic principles.

**Requisites:** Some basic biology ecology recommended; cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

**ENVIR ST/CIV ENGR/GEOG 377 – AN INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS**

4 credits.

Design, implementation and use of automated procedures for storage, analysis and display of spatial information. Covers data bases, information manipulation and display techniques, software systems and management issues. Case studies. Meets with Civil Environmental Engineering 357.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENVIR ST 400 – SPECIAL TOPICS IN THE ENVIRONMENT: BIOLOGICAL ASPECTS OF ENVIR ST**

1-4 credits.

Topics vary each term, within the scope of the environmental biological sciences. These may encompass areas such as conservation biology, environmental ecology, issues in ethnobotany and tropical ecology, environmental health, ecotoxicology, biodiversity, endangered resources, biological systems analysis, and field studies. Authorization may be required

**Requisites:** So st.

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENVIR ST 401 – SPECIAL TOPICS: ENVIRONMENTAL PERSPECTIVES IN THE PHYSICAL SCIENCES**

1-4 credits.

Topics vary each term, within the scope of the physical environmental sciences. These may encompass issues in energy resources, environmental measurement and analysis, modeling, remote sensing and GIS, environmental engineering and transportation, air and water resources, and global climate change. Authorization may be required

**Requisites:** So st.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENVIR ST 402 – SPECIAL TOPICS: SOCIAL PERSPECTIVES IN ENVIRONMENTAL STUDIES**

1-4 credits.

Topics vary each term, within the scope of the environmental social sciences. These may include issues in environmental policy, law, economics, land use, sustainability, food systems, energy policy, conflict resolution, environmental justice, and international development.

Authorization may be required

**Requisites:** So st.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENVIR ST 404 – SPECIAL TOPICS: HUMANISTIC PERSPECTIVES IN ENVIRONMENTAL STUDIES**

1-4 credits.

Topics vary each term, within the scope of the environmental humanities. These may encompass themes in environmental ethics, literature, art, film, aesthetics and design, history, and indigenous knowledge. Authorization may be required

**Requisites:** So st.

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENVIR ST/GEOSCI 410 – MINERALS AS A PUBLIC PROBLEM**

3 credits.

Distribution of mineral resources; present and future problems of mineral supply; conservation of minerals, and mineral resources in relation to national and international policy.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**ENVIR ST/GEOSCI 411 – ENERGY RESOURCES**

3 credits.

Sources, availability of fuels. Energy conversion and efficiency. Consumption patterns and trends. Environmental consequences of energy production and use. Policy considerations and alternatives.

**Requisites:** Crse in college level math a crse in phy sci or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENVIR ST/HISTORY/LLEGAL ST 430 – LAW AND ENVIRONMENT: HISTORICAL AND CONTEMPORARY PERSPECTIVES**

3 credits.

Explores environmental studies through a focus on law and legal history. Although its main concentration is on U.S. environmental law, the course will begin and end with broader historical and global perspectives.

Topics include a survey the English, European, and early American legal approaches to land use, natural resources, and pollution through World War II as well as an examination of the development and practice of contemporary U.S. environmental law and consideration of the recent emergence of international environmental law.

**Requisites:** Sophomore standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENVIR ST/C&E SOC/GEOG 434 – PEOPLE, WILDLIFE AND LANDSCAPES**

3 credits.

This course explores the relationship between humans and wildlife amidst diverse landscapes, both historic and contemporary, tropical and temperate. We study how humans shape wild animal populations by modifying physical environments, and by hunting, domesticating and introducing species.

**Requisites:** Geog/Envir St 339

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENVIR ST/GEOG 439 – US ENVIRONMENTAL POLICY AND REGULATION**

3-4 credits.

This course covers a broad cross-section of American environmental policy by focusing on specific statutes and policy arenas. In this course we will survey the basic elements of American environmental policy and regulation with a particular focus on the specific people, sites and scales at which environmental decision-making happens through primary-source case material. Understanding environmental outcomes in a complex society depends on observing both the structure of regulations and the geographic and social context in which such regulations emerge. This course will maintain a dual focus on (a) the legal and regulatory aspects of environmental regulation and (b) the specific geographic and social features of actual cases in which regulations and policy are used.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ENVIR ST/PHILOS 441 – ENVIRONMENTAL ETHICS**

3-4 credits.

Adequacy of ethical theories in handling such wrongs as harm to the land, to posterity, to endangered species, and to the ecosystem itself. Exploration of the view that not all moral wrongs involve harm to humans. Inquiry into the notion of the quality of life and the ethics of the "lifeboat" situation.

**Requisites:** Undergraduate students with 3 credits in Philosophy or Institute of Environmental Studies or graduate student in IES Program

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENVIR ST/CIV ENGR/G L E/GEOSCI 444 – PRACTICAL APPLICATIONS OF GPS SURVEYING**

2 credits.

Global positioning system surveying for field applications. Signals. Coordinate systems. Datums. Cartographic projections. Satellite orbits. Choosing hardware. Strategies for data collection and analysis. Assessing uncertainty. Geocoding satellite images. Integrating data with Geographic Information Systems. Emerging technologies.

**Requisites:** MATH 210, 211, 221 or equiv or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENVIR ST/SPANISH 445 – CULTURE AND THE ENVIRONMENT IN THE LUSO-HISPANIC WORLD**

3 credits.

Investigates how economy and culture work together, consuming and/or restoring their environments in divergent scenarios of the Hispanic World.

**Requisites:** SPANISH 223 and 224

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**ENVIR ST/ECON/POLI SCI/URB R PL 449 – GOVERNMENT AND NATURAL RESOURCES**

3-4 credits.

Problems of public policy and administration for development and use of natural resources.

**Requisites:** Junior standing

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**ENVIR ST/F&W ECOL/HISTORY 452 – WORLD FOREST HISTORY**

3 credits.

Examines world forest history, with attention to links between societal change and forest change. Examines how different peoples have used or abused the forest, how societies have struggled to establish policies governing forests, and how perceptions of forests have evolved.

**Requisites:** None

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**ENVIR ST/GEOG/HISTORY 460 – AMERICAN ENVIRONMENTAL HISTORY**

4 credits.

Survey of interactions among people and natural environments from before European colonization to present. Equal attention to problems of ecological change, human ideas, and uses of nature and history of conservation and environmental public policy.

**Requisites:** So st

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENVIR ST/AN SCI/DY SCI/SOIL SCI 468 – MANAGING THE ENVIRONMENTAL IMPACTS OF LIVESTOCK OPERATIONS**

2 credits.

Introduces nonpoint pollution policies and regulations and environmental losses impacting air and water quality. Discuss management practices that influence the cycling and balance of nitrogen and phosphorus across a farm and its components (livestock, crop and soil).

**Requisites:** Junior standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**ENVIR ST/GEOG/HISTORY 469 – THE MAKING OF THE AMERICAN LANDSCAPE**

4 credits.

Surveys the historical geography and environmental history of the United States by tracing the evolution of the American landscape from precolonial times to the present, with special emphasis on teaching students skills they can use to interpret landscape history themselves.

**Requisites:** Sophomore standing or one course in HISTORY, GEOG or ENVIR ST

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ENVIR ST/POP HLTH 471 – INTRODUCTION TO ENVIRONMENTAL HEALTH**

3 credits.

Impact of environmental problems on human health; biological hazards to human health from air and water pollution; radiation; pesticides; noise; problems related to food, occupation and environment of the work place; accidents. Physical and chemical factors involved.

**Requisites:** A course in biology; Jr st

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**ENVIR ST/PHYSICS 472 – SCIENTIFIC BACKGROUND TO GLOBAL ENVIRONMENTAL PROBLEMS**

3 credits.

A one-semester course designed to provide those elements of physics, atmospheric sciences, chemistry, biology and geology which are essential to a scientific understanding of global environmental problems. Specific examples of such problems include global warming, stratospheric ozone depletion, acid rain and environmental toxins. Three lectures per week.

**Requisites:** PHYSICS 103, 201, 207, or 247 or CHEM 103, 108, 109, 115, or 116

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ENVIR ST/POP HLTH 502 – AIR POLLUTION AND HUMAN HEALTH**

3 credits.

Toxicologic, controlled and epidemiologic studies on major air pollutants. Overview of study methods, lung physiology and pathology; air pollution sources, types, meteorology, sampling methods, controls and regulations.

**Requisites:** Jr st, a course in biology

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENVIR ST 506 – MODELING AND ANALYSIS OF ENVIRONMENTAL SYSTEMS**

3 credits.

Systems modeling; applications to environmental problems; systems methods.

**Requisites:** Consent of instructor

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**ENVIR ST/ZOOLOGY 510 – ECOLOGY OF FISHES**

3 credits.

Interactions of fishes with their physical, chemical, and biotic environment; physiological ecology, community ecology and fisheries sciences. Lake Mendota perch fishery and Shedd Aquarium field trips.

**Requisites:** 1 yr biol chem Jr st

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENVIR ST/ZOOLOGY 511 – ECOLOGY OF FISHES LAB**

2 credits.

Anatomy and taxonomy of Wisconsin fishes and projects in fish ecology.

**Requisites:** Zoo 511 - needs Zoo 510 or concurrent enrollment

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENVIR ST/HIST SCI/MED HIST 513 – ENVIRONMENT AND HEALTH IN GLOBAL PERSPECTIVE**

3 credits.

Explores the historical relationships between environmental change and human health from the 17th through the 20th century. Topics include colonialism and disease, medical geography, urban pollution and reform, workplace hazards, environmental risk, and the anti-toxics and environmental justice movements.

**Requisites:** Jr st

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ENVIR ST/F&W ECOL 515 – NATURAL RESOURCES POLICY**

3 credits.

This course examines natural resources policy and law in the United States relating to forests, wildlife, and other natural resources. The course investigates the policy-making process and the role of science, values, property, economics, and justice in the development of federal and state resources policy. Students are trained in professional written and oral communication and ethical engagement in resources policy and administration.

**Requisites:** F&W ECOL 379, or 410, or consent of instructor

**Course Designation:** Gen Ed - Communication Part B

Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENVIR ST/ATM OCN 520 – BIOCLIMATOLOGY**

3 credits.

How climate systems and biological organisms operate and interact at the global scale and the implications of this for climate change, ecosystem ecology and human land use.

**Requisites:** Junior standing and ATM OCN 101, ATM OCN 252 or ATM OCN/GEOG 323, and BIOLOGY/BOTANY/ZOOLOGY 152

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ENVIR ST/PHILOS 523 – PHILOSOPHICAL PROBLEMS OF THE BIOLOGICAL SCIENCES**

3 credits.

Problems raised by genetics, evolutionary theory, and taxonomy: patterns of explanatory force and dispensability of teleology; objectivity of taxonomy.

**Requisites:** 3 cr of philos or 3 cr in a biological science

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ENVIR ST/ATM OCN/GEOG 528 – PAST CLIMATES AND CLIMATIC CHANGE**

3 credits.

Climatic change throughout geologic time, especially in the last 10 millennia; mechanisms of change, evidence, and criteria, paleogeography and paleoclimatology, climate models.

**Requisites:** Jr st or one year calculus-based college physics or introduction to weather and climate; or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**ENVIR ST/GEOG 534 – ENVIRONMENTAL GOVERNANCE: MARKETS, STATES AND NATURE**

3 credits.

This class is designed to help students answer real-world questions of how the environment is managed and governed through state policy, economics, and social institutions. We will cover strategies within and outside of the formal institutions of government, and extend the discussion to the commodification of nature and the use of science to understand and govern the environment. The last third of the class will consist of students engaging with case studies of environmental governance in water, carbon, species, and urban sustainability.

**Requisites:** GEOG/ENVIR ST/GEOG 339, GEOG/ENVIR ST/GEOG 439, or FW ECOL/ENVIR ST/F&W ECOL 515

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ENVIR ST/ATM OCN 535 – ATMOSPHERIC DISPERSION AND AIR POLLUTION**

3 credits.

Physical principles of atmospheric transport processes. Variation of transport in time and place. Local and regional concentrations of pollutants. Environmental implications of air pollution and control strategies.

**Requisites:** Math 212, PHYSICS 202, or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ENVIR ST/GEOG 537 – CULTURE AND ENVIRONMENT**

4 credits.

Geographic approaches to culture-nature relationships, including human perception of, use of, and adaptation to the physical environment, with emphasis on traditional subsistence systems; selected topics from contemporary and historical sources.

**Requisites:** Geog/IES 339 or equiv

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENVIR ST 539 – AIR RESOURCES SCIENCE AND POLICY**

3 credits.

Overview of modern scientific methods, state-of-understanding, and current policy problems related to weather prediction, climate change, air pollution, and energy use. Problem sets, discussion, final paper with drafts.

**Requisites:** So st or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**ENVIR ST/C&E SOC/SOC 540 – SOCIOLOGY OF INTERNATIONAL DEVELOPMENT, ENVIRONMENT, AND SUSTAINABILITY**

3 credits.

Sociological analysis of relationships among economic growth, environmental sustainability and social justice in the developing world. Considers frameworks for understanding poverty, hunger, educational and technological inequality, and the impact of globalization on prospects for socially and ecologically sustainable development.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/ C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/ C&E SOC 211)

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENVIR ST/CIV ENGR/LAND ARC 556 – REMOTE SENSING DIGITAL IMAGE PROCESSING**

3 credits.

Techniques of enhancement and quantification of remote sensing imagery. Emphasis on processing and analyzing data gathered by airborne and satellite sensors. Techniques to quantitatively analyze data from photography, electro-optical scanners, satellite systems, and radar and passive microwave systems. A 5-week practicum with applications to: agriculture and forestry, geology and soils, water quality, and urban and regional planning.

**Requisites:** Civ Engr/Envir St/Forestry 303 or authorization**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**ENVIR ST/GEOG 557 – DEVELOPMENT AND ENVIRONMENT IN SOUTHEAST ASIA**

3 credits.

Examines the political, socio-cultural, economic and ecological aspects of contemporary development and human-environment relations in mainland Southeast Asia, applying a critical and theoretically informed perspective, and focusing largely on rural issues.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENVIR ST/POP HLTH 560 – HEALTH IMPACT ASSESSMENT OF GLOBAL ENVIRONMENTAL CHANGE**

3 credits.

Covers contemporary methods of impact assessment in a framework to address global environmental health threats (e.g., global climate change, deforestation and biodiversity loss, and urban sprawl). Issues dovetail well (but do not overlap) with Introduction to Environmental Health.

**Requisites:** Junior standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENVIR ST/A A E/CIV ENGR/URB R PL 561 – ENERGY MARKETS**

3 credits.

Energy resources are an essential element of the world's business, political, technical and environmental landscape. Analytic tools provided by the discipline of economics expands our understanding of this critical issue. Energy supply markets reviewed include both fossil fuels and renewable resources. Energy demand sectors include residential, commercial, industrial and transportation. Electricity represents an intermediate energy market. The interactions among these markets participants indicate how scarce resources are allocated among competing needs in the world economy.

**Requisites:** A A E 215, ECON 101, or ECON 111**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENVIR ST/SOIL SCI 575 – ASSESSMENT OF ENVIRONMENTAL IMPACT**

3 credits.

Overview of methods for collecting and analyzing information about environmental impacts on agricultural and natural resources, including monitoring the physical environment and relating impacts to people and society. Authorization may be required

**Requisites:** Jr st.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**ENVIR ST 600 – ENVIRONMENTAL STUDIES MAJOR CAPSTONE**

3 credits.

Investigation of a selected complex interdisciplinary environmental problem, e.g., desertification; energy in an age of scarcity; world hunger. Readings, papers, individual and team research, intensive discussions.

**Requisites:** Senior standing enrollment in the Envir Studies Certificate Program; authorization required**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENVIR ST/GEN BUS 601 – SYSTEMS THINKING AND SUSTAINABLE BUSINESSES**

3 credits.

Introduces students to the concept of systems thinking so as to allow them to use systems to bring about large scale social change, both within the business community and within our societal infrastructure.

**Requisites:** Admitted bus stdt with Jr or Sr st or envir studies stdt**Repeatable for Credit:** No**Last Taught:** Spring 2014

**ENVIR ST 602 – SUSTAINABILITY IN PRACTICE: CAPSTONE**

3 credits.

An integrative capstone experience involving interdisciplinary teams applying the triple bottom line principals of sustainability to local, regional and global challenges.

**Requisites:** Junior or Senior standing seeking Sustainability Certificate, or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**ENVIR ST/BOTANY/F&W ECOL/ZOOLOGY 651 – CONSERVATION BIOLOGY**

3 credits.

Application of ecological principles and human dimensions to the conservation of biological diversity. Topics: biodiversity science; conservation planning; population ecology; habitat loss, species exploitation, invasive species, pollution; human attitudes and activities as they affect the biosphere; approaches to monitoring interventions.

**Requisites:** An ecology crse (eg, Botany/ZOOLOGY/BOTANY/F&W ECOL 460)

**Course Designation:** Gen Ed - Quantitative Reasoning Part B  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENVIR ST/A A E/F&W ECOL 652 – DECISION METHODS FOR NATURAL RESOURCE MANAGERS**

3-4 credits.

Applications of quantitative methods, including optimization and simulation, to the management of natural resources, especially forests.

**Requisites:** MATH 211 or equiv Comp Sci 132 or equiv

**Course Designation:** Gen Ed - Quantitative Reasoning Part B  
Breadth - Biological Sci. Counts toward the Natural Sci req  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENVIR ST/URB R PL 668 – GREEN POLITICS: GLOBAL EXPERIENCE, AMERICAN PROSPECTS**

3 credits.

An examination of the writings and activities of green parties and movements around the globe in order to assess the potential of an explicit, radical environmental politics for the United States.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENVIR ST/A A E/ECON/URB R PL 671 – ENERGY ECONOMICS**

3 credits.

The method, application, and limitations of traditional economic approaches to the study of energy problems. Topics include microeconomic foundations of energy demand and supply; optimal pricing and allocation of energy resources; energy market structure, conduct, and performance; macro linkages of energy and the economy; and the economics of regulatory and other public policy approaches to the social control of energy.

**Requisites:** (Senior standing and ECON 101 or AAE 215) or graduate standing

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENVIR ST 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ENVIR ST 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENVIR ST 691 – SENIOR THESIS**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**ENVIR ST 692 – SENIOR THESIS**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ENVIR ST/LAND ARC/SOIL SCI 695 – APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS IN NATURAL RESOURCES**

3 credits.

Course has four components: 1) Detailed review of GIS concepts; 2) Case studies; 3) GIS implementation methods; 4) Laboratory to provide "hands-on" GIS experience.

**Requisites:** Land Arc/Envir St/Civ Engr 655 or GEOG/CIV ENGR/ENVIR ST 377 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENVIR ST 699 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENVIR ST 707 – PROFESSIONAL SKILLS FOR GLOBAL SYSTEMS ANALYSIS**

1 credit.

Trains students in interdisciplinary skills needed to research environmental sustainability and vulnerability in linked human, non-human natural systems. Instruction involves communication simulations, facilitation training, cross-disciplinary listening exercises, and other hands-on activities. Content is linked with Environmental Studies 506.

**Requisites:** Con reg in Envir St 506 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**ENVIR ST/M H R 710 – CHALLENGES & SOLUTIONS IN BUSINESS SUSTAINABILITY**

3 credits.

This course provides students with central knowledge and skills to tackle challenges at the intersection of business and sustainability. Students will study the failures in market and decision making systems that lead to sustainability challenges, and learn how to address these challenges on the policy, organizational, and individual level.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENVIR ST/HIST SCI/MED HIST 713 – STUDIES IN ENVIRONMENT AND HEALTH**

1 credit.

Advanced readings in primary and secondary literature of environment and health, with emphasis on current historiographic issues.

**Requisites:** Grad st, or con reg in Hist Med 513 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ENVIR ST/CIV ENGR/URB R PL 717 – WATER RESOURCES MANAGEMENT PRACTICUM PLANNING SEMINAR I**

1 credit.

This is the first of two seminars used for planning the activities of the Summer Session Water Resources Management Practicum (ENVIR ST/CIV ENGR/URB R PL 719).

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENVIR ST/CIV ENGR/URB R PL 718 – WATER RESOURCES MANAGEMENT PRACTICUM PLANNING SEMINAR II**

2 credits.

This seminar is used for planning the field work, analysis and reporting of the Summer Session Water Resources Management Practicum (ENVIR ST/CIV ENGR/URB R PL 719).

**Requisites:** Adv Grad standing or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENVIR ST/CIV ENGR/URB R PL 719 – WATER RESOURCES MANAGEMENT SUMMER PRACTICUM**

4 credits.

Interdisciplinary team of students and staff working with agency personnel, citizen groups, and/or private sector representatives on the analysis of a contemporary, problem-oriented water resource issue. Physical, biological, economic and social aspects of the issue analyzed. Comprehensive written report results, practicum's findings and management recommendations.

**Requisites:** Envir St/Civ Engr/Urb R Pl 718 or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**ENVIR ST/AGROECOL/AGRONOMY 724 – AGROECOSYSTEMS AND GLOBAL CHANGE**

3 credits.

Impacts of global change drivers (climate change, atmospheric chemistry, bioenergy, urbanization, policy) on agroecosystems and their associated goods and services; environmental impacts of agricultural land use and feedbacks to climate; modeling approaches; critical review of current scientific literature.

**Requisites:** Grad st; coursework in either college-level biology or ecology; 1 sem college-level chemistry or physics; or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENVIR ST/ATM OCN 745 – METEOROLOGICAL SATELLITE APPLICATIONS**

2-3 credits.

Use of satellite imagery and measurements in meteorological research and operations; orbital characteristics; navigation; instrumentation.

**Requisites:** Atm Ocn 640 or 1 yr calc-based college physics MATH 234

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENVIR ST/ATM OCN/GEOSCI/ZOOLOGY 750 – PROBLEMS IN OCEANOGRAPHY**

3 credits.

Introduction to techniques used in the study of the biology, chemistry, geology, and physics of the marine environment.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ENVIR ST 761 – COLLOQUIUM IN AIR POLLUTION**

1 credit.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**ENVIR ST/CIV ENGR 772 – PRACTICUM IN TRANSPORTATION MANAGEMENT AND POLICY**

3 credits.

Integrative capstone course in transportation management and policy. Interdisciplinary team experience in the application of theoretical knowledge and analytical tools for developing policy and making management decisions on "real-world" problems.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ENVIR ST 806 – LOCAL & REGIONAL APPROACHES TO SUSTAINABILITY & VULNERABILITY**

3 credits.

Evaluates what local-scale, place-based and social science / humanities approaches offer to analyses of environmental change, sustainability and vulnerability. Stresses interdisciplinary, both through content and through assignments that require students to bring their own disciplinary training and work together in teams.

**Requisites:** Envir St 506 Envir St 707 or cons inst, and con reg in Envir St 807

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**ENVIR ST 807 – PROFESSIONAL SKILLS FOR REGIONAL AND LOCAL SUSTAINABILITY**

1 credit.

Trains students in the skills needed to research environmental vulnerability and sustainability from a regional or local perspective.

Training in qualitative methods, cross-disciplinary presentation, and other hands-on activities. Content will be linked with Envir St 806.

**Requisites:** Envir St 506 Envir St 707 or cons instr, and con reg in Envir St 806

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**ENVIR ST 808 – INTEGRATED RESEARCH METHODS & PROF SKILLS: HUMANS & THE GLOBAL ENV**

4 credits.

Trains students to conduct research, review alternatives, and promote solutions to environmental problems through team-based projects.

Teams integrate research across scales and disciplines and learn to present and publicize their ideas to peers, media, and the public.

**Requisites:** Envir St 506, Envir St 707, Envir St 806, Envir St 807 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2012



**ENVIR ST/PUB AFFR/URB R PL 809 – INTRODUCTION TO ENERGY ANALYSIS AND POLICY**

3 credits.

Interdisciplinary seminar for the Energy Analysis and Policy Curriculum. Strategy and policy problems in energy policy, both national and international.

**Requisites:** Grad st admission to Energy Anal and Policy curric or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENVIR ST/PUB AFFR/URB R PL 810 – ENERGY ANALYSIS SEMINAR**

1-3 credits.

Interdisciplinary seminar for the Energy Analysis and Policy Curriculum. Quantitative energy content and energy flows as an aid to problem analysis and policy formulation.

**Requisites:** Grad st admission to Energy Anal and Policy Curric or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ENVIR ST/URB R PL 821 – RESOURCES POLICY ISSUES: REGIONAL AND NATIONAL**

2-3 credits.

Resource policy issues frequently faced by local and state governments and the federal government. Emphasis: (1) techniques for analysis of resource issues; (2) methods of collating knowledge from natural and social science disciplines which can make meaningful contributions to resolution of resource issues; (3) identification and analysis of strategic points of decision making in the legislative and executive branches of government; and (4) the application of planning techniques for accomplishing resource goals.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**ENVIR ST/JOURN/LSC 823 – SCIENCE AND ENVIRONMENT COMMUNICATION**

3 credits.

Course uses available scholarship and commentary to track the evolution of mass media coverage of science and the environment. Emphasis on how journalists utilize evidence, the influence of scientific and journalistic norms on stories, and the effects of mass media on science and environment messages to the public.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**ENVIR ST/URB R PL 843 – LAND USE POLICY AND PLANNING**

3 credits.

Critical evaluation and analysis of land use policies and programs in relation to comprehensive planning and growth management issues in the U.S. The role of legislative and judicial processes and emerging public land use social values and philosophies in the development, regulation, and effectuation of innovative land use policies. Alternative land policy and growth guidance systems of select European countries.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENVIR ST/URB R PL 865 – WATER RESOURCES INSTITUTIONS AND POLICIES**

3 credits.

Governmental processes and policies for water resources management: major substantive problems and issues; political processes of decision making; problems of governmental organization and intergovernmental arrangements.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ENVIR ST/POLI SCI/PUB AFFR 866 – GLOBAL ENVIRONMENTAL GOVERNANCE**

3 credits.

In-depth examination of the political and policy challenges posed by global environmental degradation. Analysis of international institutions for managing the global environment.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENVIR ST/A A E/POP HLTH/PUB AFFR 881 – BENEFIT-COST ANALYSIS**

3 credits.

This course will present the welfare economics underpinnings for evaluating the social benefits and costs of government activities. Issues such as uncertainty, the social discount rate, and welfare weights will be discussed; case studies from the environmental, social policy, and agricultural areas will be studied.

**Requisites:** Grad st, Pub Affr 818 880 or Pop Hlth 875 at least one crse in econ or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENVIR ST 900 – SEMINAR**

1-3 credits.

Special topics selected with each offering.

**Requisites:** Grad st; authorization may be required

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENVIR ST 901 – GRADUATE ORIENTATION SEMINAR**

1 credit.

This course provides incoming graduate students with an introduction to the organizational structure, policies and practices of the Nelson Institute, with an emphasis on the opportunities and challenges of being a student in a cross-campus interdisciplinary program.

**Requisites:** Declared in the Environment Resources or Water Resources Management graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENVIR ST/ATM OCN/BOTANY/CIV ENGR/GEOSCI/ZOOLOGY 911 – LIMNOLOGY AND MARINE SCIENCE SEMINAR**

1 credit.

Sections in various fields of zoological research.

**Requisites:** Grad st in limnology marine sci grad prgm or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ENVIR ST/URB R PL 917 – PUBLIC PARTICIPATION FOR PLANNING AND POLICY MAKING**

3 credits.

Examines public participation for planning and policymaking in both urban and natural environments; considers different types of participation from agency consultation to negotiation; designing, conducting, and evaluating citizen participation are major features.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENVIR ST 922 – HISTORICAL AND CULTURAL METHODS IN ENVIRONMENTAL RESEARCH**

3 credits.

This course introduces graduate students from a wide array of departments and programs to different disciplinary and interdisciplinary methods for studying past environmental change and the human cultural contexts within which such change occurs. The course explores the disparate forms of evidence that can be used to reconstruct past environmental changes and their human meanings. The course also strives to build a strong sense of community among graduate students and faculty members at UW-Madison who share an interest in past environmental change by creating a context within which students from different departments and programs can work together while also getting to know faculty members associated with the Center for Culture, History, and Environment (CHE).

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ENVIR ST/URB R PL 923 – SEMINAR-LAND PROBLEMS: INSTITUTIONAL DEVELOPMENT**

2-3 credits.

Land tenure and utilization research and policy problems.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ENVIR ST/ATM OCN 925 – SEMINAR-CLIMATOLOGY**

1-2 credits.

Historical climatology with emphasis on the last few centuries.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ENVIR ST/CIV ENGR 950 – ENVIRONMENTAL MONITORING SEMINAR**

1 credit.

Current research and literature dealing with environmental remote sensing and geographic information systems.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2006

**ENVR ST 951 – CONSERVATION OF BIODIVERSITY**

3 credits.

This online course will cover theory, advanced research, and the professional practice of conservation of biodiversity in interdisciplinary, international perspective. The course will be divided into approximately 50% biodiversity science and 50% human dimensions of biodiversity conservation, fully integrated with each other in readings, hands-on online simulations, peer-to-peer discussions, and writing assignments. Within lectures, students will learn about biodiversity science; human activities that threaten biodiversity; conservation project planning; conservation interventions against habitat loss, species exploitation, invasive species, and pollution; human values, attitudes, and activities as they affect controversial endangered species; and approaches to conservation research and monitoring. Furthermore, students will learn to plan conservation interventions systematically with optimal participation of stakeholders and using adaptive management practices. This course includes online, asynchronous discussions with peers and instructors to address advanced topics. Wolf recovery in Wisconsin is featured prominently as a conservation challenge. Students will:

1. Absorb information and nuance about complex ecological systems in comparative international and interdisciplinary perspectives
2. Learn systematic and strategic planning of biodiversity conservation projects
3. Experience the optimization challenges and trade-offs associated with setting policy for complex human-wildlife interactions
4. Manage and understand political clashes and value conflicts over biodiversity
5. Practice critical analysis and constructive synthesis of the latest scientific peer-reviewed literature
6. Gain experience in technical, scientific writing and peer review.

**Requisites:** Students must be accepted into the Environmental Conservation professional master's program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**ENVR ST/AGRONOMY/ATM OCN/BOTANY/ENTOM/F&W ECOL/GEOG/ZOOLOGY 953 – INTRODUCTION TO ECOLOGY RESEARCH AT UW-MADISON**

1-2 credits.

This seminar course will introduce new graduate students to the diversity of ecologists across the UW-Madison campus. Course meetings will include discussions of key topics in professional development, research presentations by faculty members, and discussions of assigned papers with senior graduate students.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENVR ST/CIV ENGR 970 – COLLOQUIUM IN TRANSPORTATION MANAGEMENT AND POLICY**

1 credit.

Current issues, case studies, research, and literature dealing with transportation management and policy development.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**ENVR ST 972 – CONSERVATION PLANNING**

4 credits.

Preparation of students to plan, monitor and evaluate the effectiveness of conservation projects and programs. Systematic and adaptive processes of conservation planning will be learned through lectures, readings, discussions, and work in small groups to prepare a conservation plan and/or review case study projects (e.g., a protected area, a landscape) with a conservation organization.

**Requisites:** Students must be accepted into the Environmental Conservation professional master's program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ENVR ST 974 – ENVIRONMENTAL CONSERVATION COHORT SEMINAR**

1 credit.

Professional development course for incoming Environmental Conservation graduate students. Introduces students to important aspects of communication, collaboration, and professional practice as they relate to Environmental Conservation.

**Requisites:** Students must be accepted into the Environmental Conservation professional master's program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**ENVR ST 975 – ENVIRONMENTAL CONSERVATION LEADERSHIP SEMINAR**

1 credit.

Professional development course for Environmental Conservation graduate students. Introduces students to important aspects of communication, negotiation, and cross-cultural professional practice as they relate to Environmental Conservation.

**Requisites:** Students must be accepted into the Environmental Conservation professional master's program and have completed Envir St 974

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**ENVIR ST 976 – THE PRACTICE OF CONSERVATION BIOLOGY AND SUSTAINABLE DEVELOPMENT**

1 credit.

A weekly series of presentations by persons who have direct experience in the practice of conservation biology and sustainable development. Presenters may be students, faculty staff or agency persons.

**Requisites:** Grad st in IES program or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ENVIR ST 977 – SUSTAINABLE DEVELOPMENT - INTEGRAL PERSPECTIVE**

3 credits.

This interdisciplinary graduate seminar has four main objectives: 1) review core concepts and history of sustainable development; 2) introduce students to innovative frameworks to sustainable development, including integral framework, institutional analysis, and the often overlooked cultural, philosophical and psychological underpinnings of environmental decision-making; 3) analyze case studies and examples through the lens of the frameworks presented; 4) provide a forum for graduate students to present their own research interests and examples regarding sustainable development. Some of the examples and case studies discussed are from Latin America, but will also include some from Wisconsin and the global level depending on the group's interests.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ENVIR ST 978 – ENVIRONMENTAL CONSERVATION TOOLS MODULES**

1 credit.

Tools modules for Environmental Conservation graduate students. Modules will provide training in specific tools and methods related to environmental conservation. Topics may include GIS, conservation finance, conservation governance institutions, biodiversity monitoring, and science communication environmental mediating.

**Requisites:** Students must be accepted into the Environmental Conservation professional master's program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ENVIR ST 979 – ENVIRONMENTAL CONSERVATION PROFESSIONAL PRACTICE**

3 credits.

This course provides an online environment for the development and practice of the skills needed to be an environmental conservation professional and leader. It will help students analyze options and make good professional conservation judgments in complex and uncertain environmental, political, and economic settings. It will also give students the tools needed to assess and revise those judgments. The course will include exercises on the politics of environmental decisions, internal and external communication strategies, and program development and assessment strategies. The course builds on earlier classes' discussions of online communication and presentation skills.

**Requisites:** Enrolled in Environmental Conservation professional master's program and Envir St 975**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ENVIR ST/ATM OCN/BOTANY/F&W ECOL/GEOG/GEOSCI/ZOOLOGY 980 – EARTH SYSTEM SCIENCE SEMINAR**

1 credit.

Topics in earth system science. Emphasis on the coupling between atmospheric, oceanic and land surface systems, involving physical geochemical and biological processes, and including interactions with human systems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ENVIR ST 990 – RESEARCH**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ENVIR ST 993 – APPROACHES TO INTERDISCIPLINARY ENVIRONMENTAL RESEARCH**

2 credits.

A course to assist students undertaking interdisciplinary research. Preparation of a proposal or manuscript to professional standards. A review of other topics relevant to interdisciplinary work. Formal presentation of a research plan or other product to peers for review and evaluation. Authorization may be required

**Requisites:** Land resources major.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017

**ENVIR ST 999 – ADVANCED INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**FAMILY MEDICINE (FAM MED)****FAM MED 699 – DIRECTED STUDY**

1-12 credits.

Directed study projects as arranged with faculty member.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**FAM MED 701 – PERSPECTIVES IN MULTIDISCIPLINARY CLINICAL & TRANSLATIONAL RESEARCH**

2 credits.

An overview of clinical investigation, including translational research; observational, experimental and quasi experimental designs; efficacy and effectiveness; behavioral and community interventions; qualitative methods; educational research; quality assurance; health economics; bioethics; pharmacotherapy trials; health disparities, and patents.

**Requisites:** Introductory statistics course**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**FAM MED 711 – THE HEALER'S ART**

1 credit.

The class explores relationship-centered care in the medical profession. Topics will include the importance of holistic self-care, methods of sharing, processing and responding to grief and the concepts of service and calling in medicine.

**Requisites:** 1st yr Med st or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**FAM MED 712 – HEALTH CARE IN DIVERSE COMMUNITIES**

1 credit.

This elective is an introduction to issues in health care provided in diverse communities. Topics include cultural issues in medicine, health disparities, cross-cultural communication, culture and resiliency, historical background and ethics, civil rights in practice and minority health care professionals.

**Requisites:** Stdts enrolled in a prof degree prgm cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**FAM MED 910 – RESEARCH AND INDEPENDENT STUDY**

1-8 credits.

**Requisites:** SR MED 812 (Primary Care Clerkship)**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**FAM MED 919 – INDIVIDUALIZED FOURTH YEAR CLINICAL CLERKSHIP**

1-12 credits.

Individually arranged fourth year clinical clerkships. (Student must have Fourth Year Committee approval to count for fourth year credit.)

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**FAM MED 920 – CLINICAL CLERKSHIP IN FAMILY MEDICINE-MADISON**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**FAM MED 921 – CLINICAL CLERKSHIP IN FAMILY MEDICINE-APPLETON**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**FAM MED 922 – CLINICAL CLERKSHIP IN FAMILY MEDICINE-EAU CLAIRE**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**FAM MED 923 – CLINICAL CLERKSHIP IN FAMILY MEDICINE-WAUSAU**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017



**FAM MED 926 – CLINICAL CLERKSHIP IN FAMILY & COMMUNITY MEDICINE-NATIVE AMERICAN**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**FAM MED 927 – CLINICAL CLERKSHIP IN RURAL AND COMMUNITY HEALTH**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**FAM MED 930 – CLINICAL CLERKSHIP IN FAMILY MEDICINE-ST LUKES (MILWAUKEE)**

2-12 credits.

Clinical elective for fourth year medical students.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**FAM MED 931 – CLINICAL MANAGEMENT OF ADDICTIVE DISORDERS-MADISON**

2-12 credits.

Clinical elective for fourth year medical students.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**FAM MED 933 – SPORTS MEDICINE**

1-12 credits.

Clinical elective for fourth year medical students.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**FAM MED 935 – ST MARY'S MEDICAL CENTER FAMILY MEDICINE SUB-INTERNSHIP**

1-12 credits.

Elective for fourth year medical students.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**FAM MED 937 – FAMILY MEDICINE UW HOSPITAL SUB-INTERNSHIP**

1-6 credits.

Service accepts patients for admission from the four Department of Family Medicine residency training clinics, as well as 12 community based Family Medicine clinics. The average service census is 11 patients.

**Requisites:** Successful completion of the third year UWSMPH curriculum**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**FAM MED 938 – HOSPICE & PALLIATIVE CARE ELECTIVE**

4 credits.

This elective is designed to assist the students in developing a solid foundation of skills, knowledge, and attitudes needed to provide care for patients in a Hospice and Palliative Care setting. During this 4 week elective, students will have the opportunity to experience the variety of patient encounters found in this specialty. These experiences will vary between student and will encompass Hospice, Palliative, Residential, and Bereavement. Students will spend their time in the following locations: Unity, Residential (The Jack and Ingrid Meng Residence), and Bellin Memorial Hospital, The Cancer Team at Bellin Health, and Skilled Nursing and Residential Facilities.

**Requisites:** Must be a 4th year Medical Student in good standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**FAM MED 939 – HEART IM (HUMANISTIC ELECTIVE IN ACTIVISM, REFLECTIVE TRANSFORMATION, AND INTEGRATIVE MEDICINE)**

4 credits.

HEART (Humanistic Elective in alternative medicine, Activism, and Reflective Transformation) is an AMSA (American Medical Student Association) sponsored, month long elective for fourth-year medical students. Twenty-five medical students from across the nation will come together to live in an intentional community at a retreat center for the month of April each year in the California redwoods to explore the nature of healing, activism, self-care and personal reflection. Five medical student leaders are chosen through a competitive application process each year to organize the rotation under the guidance of a group of faculty mentors. Experts in integrative medicine, nutrition, humanism, non-violent communication, health policy, and public health will lead didactic and experiential workshops throughout the month. Students will also participate in a community service project as a way to synthesize and act upon core aspects of the curriculum in the surrounding community. The faculty who participate in this rotation come from institutions from around the county, including the University of California-San Francisco, University of Minnesota, University of Florida, as well as core integrative medicine faculty from the University of Wisconsin. Independent donors and student tuition provide funds, and these cover on-site transportation, meals, housing, and all required curricular activities.

**Requisites:** 4th year medical student**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017



**FAM MED 940 – COMMUNITY BASED CARE OF THE ELDERLY**

2-4 credits.

Welcome to Community Based Care for the Elderly, an interdisciplinary geriatric teaching service. The nursing home is an ideal setting to teach geriatrics at the interface of hospital and home, where 45% of elderly spending some time of their life. Didactic lectures are followed by bedside rounds, where geriatric topics are applied. Exposure to geriatric community and clinic experiences round out the rotation.

**Requisites:** Fourth Year Students: successful completion of Third Year curriculum Third Year Students: upon recommendation of course director  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**FAM MED 941 – INTEGRATIVE MEDICINE**

4 credits.

This course involves shadowing physicians at the Integrative Medicine Consult Clinic. The student will spend time with holistic providers developing a plan for self-care, doing independent reading and a project (which often involves writing a patient handout or a supplement summary for clinicians). Activities and scheduling will be shaped around the student's areas of interest. Students can determine if they would prefer a general overview of integrative medicine or if they would like to focus on one or two areas of interest. An assigned faculty mentor will guide the process.

**Requisites:** Declared in the Medical program with 4th year standing  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

## FARM AND INDUSTRY SHORT COURSE (FISC)

**FISC 20 – INTRODUCTION TO PLANT SCIENCE**

2 credits.

Students will learn about growing crops and plants, the basics of plant growth, how plants have diversified based on environmental locations, classifications of plants, and general plant nutrition.

**Requisites:** Declared in a Farm and Industry Short Course certificate program

**Repeatable for Credit:** No**Last Taught:** Fall 2017**FISC 21 – AGRICULTURAL SALES**

2 credits.

Students will learn the basic steps to the sales process in order to prepare for a career in agricultural sales and related sales applications found in daily life; develop sales-related skills, such as negotiation skills, body language, and time management skills; and reflect on and develop personal strengths and abilities that will enhance agricultural sales presentations and customer relationships.

**Requisites:** Declared in Farm and Industry Short Course program

**Repeatable for Credit:** No**Last Taught:** Fall 2017**FISC 23 – SAFE AND EFFECTIVE USES OF PESTICIDES IN AGRONOMIC CROPS**

1 credit.

Students will learn about the multiple aspects of pesticides (herbicides, insecticides, and diseases) use in WI agronomic crops through learning about the patterns, application methods, resistance, regulation, and safe application. Emphasis will be placed on how to utilize existing resources to use pesticides safely, legally, and effectively while minimizing environmental impacts.

**Requisites:** Declared in Farm and Industry Short Course program

**Repeatable for Credit:** No**FISC 51 – BUSINESS PRINCIPLES OF AGRICULTURAL MANAGEMENT**

1 credit.

An introduction to the working of a market economy and decision-making concepts; the role of prices and preferences in making production and consumption decisions; U.S. agricultural system and various economic policies that may be employed by government; Taxation, regulation, trade, and employment policies.

**Requisites:** Declared in Foundations of Farm Management certificate program

**Repeatable for Credit:** No**FISC 52 – AGRICULTURAL SAFETY AND HEALTH**

1 credit.

Causes and prevention of common farm injuries and illnesses; control of hazards; types of fatal and non-fatal injuries; tractor and machinery-related injuries and operating practices; hazards to children; animal-related injuries; confined spaces; respiratory hazards; chemical exposure; personal protective equipment; OSHA, DOL, and EPA worker-related regulations; causes and prevention of injuries including inspections and hazard control, and safety management strategies and activities.

**Requisites:** Declared in Foundations of Farm Management certificate program

**Repeatable for Credit:** No**FISC 53 – AGRICULTURE HUMAN RESOURCES MANAGEMENT**

1 credit.

Understanding roles of manager, leader, and communicator; developing a human resource management philosophy; finding and retaining employees; legal considerations.

**Requisites:** Declared in Foundations of Farm Management certificate program

**Repeatable for Credit:** No**FISC 54 – AGRIBUSINESS COMMUNICATIONS**

2 credits.

Introduction to interpersonal communication skills for use in a variety of agribusiness settings. Topics include verbal, non-verbal, and written communication methods; negotiation skills; promotion techniques; and the application of these in agribusiness.

**Requisites:** Declared in Foundations of Farm Management certificate program

**Repeatable for Credit:** No

**FISC 55 – FARM AND INDUSTRY SHORT COURSE FIRST-YEAR SEMINAR**  
1 credit.

Provides first-year Farm Industry Short Course students with an academic orientation to the FISC program. Topics include current agricultural- and consumer-related issues (e.g., food systems, agriculture advocacy, climate change, etc.), academic and career development, and an introduction to the academic resources and opportunities of the college and university.

**Requisites:** Declared in Foundations of Farm Management certificate program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FISC 56 – AGRICULTURE, FOOD SYSTEMS, AND RURAL DEVELOPMENT**  
1 credit.

Students will study how national economic and social policies affect farmers and rural residents. Topics include rural economic trends and issues; rural development policies; state and local taxes; local land use planning; farm financial stress and government intervention; farmer-natural resource use conflicts; and the impacts of international trade agreements and export policies.

**Requisites:** Declared in Foundations of Farm Management certificate program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FISC 57 – INTRODUCTION TO SOILS**  
2 credits.

Soil formation; important physical and chemical properties; soil moisture; introduction to soil fertility; soil mapping and classification.

**Requisites:** Declared in Foundations of Farm Management certificate program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FISC 58 – FORAGE CROPS**  
2 credits.

Identification and characteristics of forage legumes and grasses; management and culture of legumes, grasses and grass-legume mixtures; weed, insect, and forage disease control; hay and haymaking; legume, grass, and corn silage; forage varieties and their uses; forage quality and its importance in feeding livestock; pasture types and improvement; forage production trends.

**Requisites:** Declared in Foundations of Farm Management certificate program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FISC 59 – FOOD SAFETY**  
1 credit.

Covers basic principals of food safety including safeguarding our food supply and preventing food-born illnesses from farm to market.

**Requisites:** Declared in Foundations of Farm Management certificate program

**Repeatable for Credit:** No

**FISC 61 – DAIRY HERD HEALTH**  
1 credit.

In this course, students will learn the basic veterinary medical terminology and goals of a veterinarian as it pertains to the dairy cow and dairy young stock. Students will understand how to prevent herd health problems and will begin to recognize signs when they arise. Students will also be able to discuss health problems with the herd veterinarian. Specific topics will include: cattle disease problems; how the animal body works; digestive disorders, noninfectious diseases, principles of infection and sanitation; state regulations against disease.

**Requisites:** Declared in the Farm Industry Short Course program

**Repeatable for Credit:** No

**FISC 63 – DAIRY HERD MANAGEMENT**  
2 credits.

In this comprehensive course, students will learn how to care for their herd to increase production and profits. Use of business, feeding, and herd management tools in dairy farm operation will be covered in depth. Case studies of individual farms used for analysis and planning. Specific topics covered will include: cattle movement and behavior, calf care, heifer care, nutrition, reproduction, fresh cows and diseases, parlor management, milk harvest, mammary anatomy, mastitis and milk quality control, cattle comfort and housing options, herd culling decisions, and interacting with the consumer.

**Requisites:** Declared in the Farm Industry Short Course program

**Repeatable for Credit:** No

**FISC 71 – PASTURE MANAGEMENT**  
1 credit.

This course covers pasture establishment, pasture improvement and pasture plant growth. Students will also learn about the in-depth topics of pasture layouts, fencing and water systems, animal behavior on pastures, general pasture utilization and animal nutrient needs on pasture, including supplemental feeding.

**Requisites:** Declared in the Farm Industry Short Course program

**Repeatable for Credit:** No

**FISC 72 – PASTURE BASED DAIRY/LIVESTOCK - BUSINESS START-UP AND MARKETING**  
1 credit.

Students will learn production and management strategies emphasizing pasture-based dairy or livestock farm start-up. Students will begin a business plan in this introductory course as the first of the two-course series. There will be one full-day required field trip. This course is held in conjunction with, and serves as the core of, the Wisconsin School for Beginning Dairy and Livestock Farmers (WSBDF).

**Requisites:** Declared in the Farm Industry Short Course program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FISC 73 – PASTURE BASED DAIRY/LIVESTOCK - MANAGING THE BUSINESS**

1 credit.

Course covers grass-fed production and marketing, risk management (specifically of pasture-based farms), pasture soil nutrient management, grazing and natural resource management, and ecological restoration through livestock. Students will present their business plans to a panel of lenders. Students will be required to attend four evening Business Plan Writing Workshops. This is the final course in the two-course series of the Wisconsin School for Beginning Dairy/Livestock Farmers (WSBDF) program.

**Requisites:** FISC 072

**Repeatable for Credit:** No

**FISC 75 – SPECIAL TOPICS IN FISC**

1-3 credits.

Specialized subject matter of current interest to FISC students.

**Requisites:** Declared in Foundations of Farm Management certificate program

**Repeatable for Credit:** Yes, unlimited number of completions

**FISC 101 – MEAT ANIMAL PRODUCTION I**

2 credits.

In this course, students will be focusing on the ruminant livestock production systems. Students will evaluate and design the implementation of foundational principles in beef cattle, sheep and goat production. Through the connecting of production system to market costs and revenues, students will gain an in-depth understanding of meat animal livestock production. Students will have hands-on experiences in beef cattle, sheep and goat management.

**Requisites:** Declared in the Farm Industry Short Course program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FISC 102 – MEAT ANIMAL PRODUCTION II**

2 credits.

In this course, students will learn about the monogastric and ruminant meat animal, specifically swine, and poultry production systems. Focusing on swine and poultry, students will evaluate and design the implementation of foundational principles in swine and poultry production as well as build on beef, sheep and goat foundations from Meat Animal Production I. Students will learn about production costs and revenues and experience hands-on opportunities with several meat animal species.

**Requisites:** FISC 101

**Repeatable for Credit:** No

**FISC 104 – GRAIN CROPS PRODUCTION & MANAGEMENT**

2 credits.

This course covers corn, soybeans, and small grains (wheat). Current production recommendations related to hybrid and variety selection, seedbed preparation, pest control, fertility management, harvest, storage, marketing, and crop ecology will be discussed. Students will be encouraged to explore resources and develop confidence to find solutions on the farm.

**Requisites:** Declared in Foundations of Farm Management or Crops Soils Management certificate program

**Repeatable for Credit:** No

**FISC 105 – DAIRY CATTLE SELECTION AND EVALUATION**

2 credits.

In this course, students will learn the basics of genetic selection programs and the effectiveness of appropriate selection strategies specific to the dairy farm. Genomic testing research and advanced reproductive techniques will be discussed and students will learn about the correct application of these techniques on their farm. Basic anatomy of a dairy cow and linear scoring systems. After establishing dairy cow conformation and functionality and appraisal systems, students will evaluate cattle using type scorecards to improve the appearance, performance and longevity of dairy cattle. Following the understanding of the factors that impact the value of cattle, students will also learn how to apply corrective mating programs to improve perceived defects or nonexistent features in their herd(s).

**Requisites:** Declared in the Farm Industry Short Course program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FISC 110 – LIVESTOCK HOUSING**

2 credits.

This covers planning of dairy, beef and swine, livestock housing for proper environmental control, manure and feed handling, and labor and capital efficiency. Topics include building materials, heat loss, silo sizing, cost estimating, computer aided design, and ventilation and manure storage. Students will develop a plan for their own farmstead. This course is useful for those who plan to construct livestock buildings within the next 5-15 years, including those who want to work in the farm building trade.

**Requisites:** Declared in the Farm Industry Short Course program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FISC 114 – RUMINANT NUTRITION**

2 credits.

Students will learn practical nutrition for lactating dairy cows, dairy heifers, and dairy beef. This course covers digestion and nutrient metabolism, milk synthesis and ration formulation guidelines and stresses importance of quality forage in the feeding program. Students will learn the basic anatomy and physiology of the digestive system of ruminant animals and how feeding and management are geared toward optimizing rumen function. This course will introduce the basic concepts of nutrition and how feeds provide nutrients and basic skills necessary for feeding dairy cattle. Students will learn how to assess animal performance and adequacy of the feeding program through evaluating intake, body condition, and transition cow health and learn how to feed and manage growing ruminants.

**Requisites:** Declared in the Farm Industry Short Course program

**Repeatable for Credit:** No

**FISC 115 – AGRIBUSINESS FEASIBILITY PLANNING**

1 credit.

Accounting, budgeting and communication skills are necessary to develop and evaluate farm business plans. Students are introduced to computerized farm accounting and will develop skills with modern electronic spreadsheets and FINPACK while developing a case farm feasibility assignment.

**Requisites:** FISC 051

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FISC 120 – MEAT ANIMAL EVALUATION & MARKETING**

2 credits.

This course demonstrates how meat animals within a species differ in value, grade and yield. This course will also cover price determination and marketing systems for each species. The students will receive hands-on experience in evaluating, slaughtering, and cutting beef and pork. Lamb processing and manufacturing of processed meat items will be demonstrated.

**Requisites:** Declared in the Farm Industry Short Course program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FISC 121 – AGRICULTURAL COMMODITIES MARKETING**

2 credits.

This course focuses on the farm and its marketing environment and provides an overview of the economics of grain and milk markets. The course concentrates on developing skills for effective grain and dairy marketing analysis and strategies. It examines forward contracting, hedging on futures markets, delayed pricing and options trading. It will also examine farm policies and the impact on farms. Students will gain an understanding and appreciation of the commodity and futures markets, major trends and causes of trends in dairy and grain industries, market factors that influence farm commodities, risk tools and cooperatives.

**Requisites:** Declared in the Farm Industry Short Course program

**Repeatable for Credit:** No

**FISC 133 – SOIL AND CROP NUTRIENT MANAGEMENT**

2 credits.

Students will understand how to sample and analyze soil to determine nutrient composition and deficiencies, apply knowledge of crop needs to develop nutrient management plans for various crops across a spectrum of Wisconsin soil types, and understand how other properties of soil, including drainage and erosion, can impact nutrient levels and crop productivity.

**Requisites:** FISC 057

**Repeatable for Credit:** No

**FISC 134 – REPRODUCTION OF FARM ANIMALS**

2 credits.

Students will learn the basic comparative physiology of reproduction of farm animals and apply those physiological principles to understand successful heat detection, artificial insemination, estrous synchronization, embryo transfer, pregnancy diagnosis, and improvement of reproductive efficiency through good reproductive management.

**Requisites:** Declared in the Farm Industry Short Course program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FISC 136 – AGRICULTURAL BUSINESS LAW**

1 credit.

This course will provide a basic overview of some of the areas of the law that may impact the farm or agribusiness, and assist students in identifying practices and activities that may impact their legal liability. Students will become acquainted with basic legal terms and concepts, understand basic techniques of legal analysis, be able to identify legal issues and be better equipped to explain issues to attorneys.

**Requisites:** Declared in the Farm and Industry Short Course program

**Repeatable for Credit:** No

**FISC 140 – FARM MACHINERY**

2 credits.

Principles of operation, construction, maintenance, and management of machines for the production of agricultural crops. Laboratory sessions include working with machine components and actual field machines.

Previous experience with farm machinery is not required.

**Requisites:** Declared in Foundations of Farm Management or Farm and Equipment Operations certificate program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FISC 142 – IDENTIFICATION AND MANAGEMENT OF AGRONOMIC PESTS**

3 credits.

Introduces students to principles in Integrated Pest Management with an emphasis on pest biology and management in agronomic settings.

**Requisites:** Declared in Crops and Soils Management or Diversified Ag Operations certificate program

**Repeatable for Credit:** No

**FISC 143 – FARM POWER**

2 credits.

Principles of operation, construction, maintenance, and management of agricultural tractors and engine power systems. Covers two- and four-stroke diesel and spark-ignition engines, lubrication, cooling, fuel systems, power measurement, electrical systems, and transmissions. Labs focus on understanding the tractor and engine but do not include tractor or engine overhauls. Course assumes no previous experience with tractors or engines.

**Requisites:** Declared in Foundations of Farm Management or Farm and Equipment Operations certificate program

**Repeatable for Credit:** No

**FISC 145 – PRECISION AGRICULTURAL TECHNOLOGIES**

2 credits.

Precision agriculture can aid in reducing inputs for crop production. Course provides an overview of precision agriculture technologies and will cover Global Positioning Systems, Geographic Information Systems, variable rate technology, section/flow control, soil and yield mapping, and guidance systems. Economics of the different technologies will be discussed. Previous experience with precision agriculture systems is not required.

**Requisites:** Declared in Foundations of Farm Management or Farm and Equipment Operations certificate program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

# FINANCE, INVESTMENT AND BANKING (FINANCE)

## FINANCE/ECON 300 – INTRODUCTION TO FINANCE

3 credits.

Concepts and techniques in corporate finance and investments. Topics include the financial environment, securities markets, financial markets, financial statements and analysis, working capital management, capital budgeting, cost of capital, dividend policy, asset valuation, investments, decision making under uncertainty, mergers, options, and futures.

**Requisites:** So, Jr or Sr st; ECON 101 or AAE 215; Acct IS 100 or 300; Gen Bus 303 or equiv or con reg

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

## FINANCE 305 – FINANCIAL MARKETS, INSTITUTIONS AND ECONOMIC ACTIVITY

3 credits.

An analysis of the U.S. financial system, its responsiveness to and impact on economic activity and policy, its procedures for assessing and pricing risks on various financial instruments, and its role in the allocation of funds to different sectors in the economy.

**Requisites:** FINANCE/ECON 300

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

## FINANCE/ECON 320 – INVESTMENT THEORY

3 credits.

Structure and functioning of securities markets; principles of portfolio construction; models of the tradeoff between risk and expected return.

**Requisites:** Sophomore, Junior or Senior standing; MATH 213 or 222; Finance/ECON/FINANCE 300; Gen Bus 304 or equivalent or concurrent registration

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

## FINANCE 325 – CORPORATION FINANCE

3 credits.

Development of the theory, method and analytical techniques of financial management. Techniques of capital budgeting; valuation of projects and firms; theory of capital structure; dividend policy; cost of capital; mergers and acquisitions.

**Requisites:** So, Jr or Sr st; MATH 213 or 222; Finance/ECON/FINANCE 300; Gen Bus 304 or equiv or con reg; Acct IS 301

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

## FINANCE 330 – DERIVATIVE SECURITIES

3 credits.

Pricing and uses of options, futures, and forward contracts.

**Requisites:** Finance/ECON/FINANCE 300, MATH 213 or 222, Gen Bus 304 or equivalent (or consent required)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

## FINANCE 340 – FIXED INCOME SECURITIES

3 credits.

This course is fully devoted to analysis of fixed income, bond markets. The objective of the class is to introduce tools for evaluating bonds and making decisions about trading and hedging portfolios of fixed income securities. The main focus is on government bonds and derivative securities associated with them. We will consider basic ways to price these bonds using techniques that are well established on Wall St. The class will introduce basic trading strategies based on exploiting mis-priced securities. Such strategies are profitable when risks are minimized, and so we will discuss several ways to measure and minimize risk. We discuss the pricing of derivative securities such as bond options and swaps. Other topics include repo financing, mortgage markets, and basic issues involving default risk of corporate bonds.

**Requisites:** Must have taken FINANCE 330.

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

## FINANCE 365 – CONTEMPORARY TOPICS

1-3 credits.

A course for the exploration of subject areas possibly to be introduced into the business curriculum.

**Requisites:** Prerequisite varies by topic

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## FINANCE 399 – READING AND RESEARCH-FINANCE

1-6 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

## FINANCE 410 – BANK MANAGEMENT

3 credits.

Management of depository financial intermediaries with primary emphasis on commercial banks. Topics include bank regulation, liquidity and reserve position management, loan pricing and analysis, investment portfolio problems and overall asset liability management.

**Requisites:** FINANCE/ECON 300

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**FINANCE 420 – INVESTMENT BANKING AND CAPITAL MARKETS**

3 credits.

Provides a broad overview of investment banking. Topics covered include valuation, cash flow, initial public offerings, leveraged buyouts, merger and acquisitions and related corporate governance issues.

**Requisites:** FINANCE/ECON 300**Repeatable for Credit:** No**Last Taught:** Fall 2017**FINANCE/INTL BUS 445 – MULTINATIONAL BUSINESS FINANCE**

3 credits.

Application of financial theory to the operations of multinational firms; survey of the international financial environment; determinants of international portfolio and direct investment capital flows; management of foreign exchange position and hedging strategies; evaluation of foreign investment projects (multinational capital budgeting); international financial structure decisions; multinational credit institutions and capital markets; taxation of international business.

**Requisites:** Finance/ECON/FINANCE 300, MATH 213 or 222, Gen Bus 303 or equiv**Repeatable for Credit:** No**Last Taught:** Fall 2017**FINANCE 457 – ENTREPRENEURIAL FINANCE**

3 credits.

Discusses the tools helpful for financing new ventures, with emphasis on their applications. The course also helps students understand the institutional setting that has an impact on the financing conditions of new ventures.

**Requisites:** Finance/ECON/FINANCE 300, MATH 213 or 222, Gen Bus 303 or equiv, Acct I S 301**Repeatable for Credit:** No**Last Taught:** Spring 2017**FINANCE 610 – BANK SIMULATION AND STRATEGY**

3 credits.

This course covers advanced asset-liability, hedging, tax minimization, merger/acquisitions and economic value added strategies for depository financial institutions. Students practice these strategies by managing their own bank in a computer simulation model, merging with or acquiring other student's banks using MA software, and by playing a foreign exchange trading simulation.

**Requisites:** FINANCE 410**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**FINANCE 635 – SECURITY ANALYSIS**

3 credits.

Financial analysis for selection of securities that are currently either under- or over-valued.

**Requisites:** Students must have taken FINANCE/ECON 300 or ECONOMICS 300 or FINANCE 700**Repeatable for Credit:** No**Last Taught:** Fall 2017**FINANCE 700 – INTRODUCTION TO FINANCIAL MANAGEMENT**

3 credits.

Introduction to financial management of firms and investment decision making; both theory and practice are emphasized. Topics covered include the financial environment and securities markets, financial statements and analysis, working capital management and capital budgeting, cost of capital, dividend policy, asset valuation, investments, decision making under uncertainty and selected topics such as mergers, options, futures.

**Requisites:** MBA students only**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**FINANCE 720 – INVESTMENT THEORY AND PRACTICE**

3 credits.

Development of the theory, instruments, techniques and practice of modern investment management. Topics include asset pricing and valuation under certainty and uncertainty, portfolio management, determination of interest rates, immunization strategies and derivative securities.

**Requisites:** FINANCE 700 and OTM 705**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**FINANCE 721 – INVESTMENT THEORY AND APPLICATION**

3 credits.

Theory and practice of finance investment: financial market structure, arbitrage, theory of risk and return, behavior of financial prices, option contracts, futures and forward contracts, valuation of derivatives, interest rates, fixed-income securities, common stock and portfolio theory.

**Requisites:** FINANCE 700 OTM 705 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2012**FINANCE 725 – CORPORATION FINANCE THEORY AND PRACTICE**

3 credits.

Theory and practice of financial management of firms. Techniques of capital budgeting under certainty and uncertainty; valuation of projects and firms; theory of capital structure; dividend policy; cost of capital; mergers and acquisitions.

**Requisites:** FINANCE 700 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017



**FINANCE 726 – VALUATION AND CORPORATE INVESTMENT DECISIONS**  
3 credits.

Theory and practice of financial valuation for investment decisions: present value, modeling cash flows, hurdle rates, financial multiples, valuing private firms, real options.

**Requisites:** FINANCE 700

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**FINANCE 727 – RAISING CAPITAL & FINANCING THE FIRM**  
3 credits.

Theory and practice of corporation finance: financial security contracts; security issuance; capital structure; dividend policy; cost of capital; financial risk management; mergers, acquisitions, and financial restructuring.

**Requisites:** FINANCE 700

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**FINANCE 735 – INTRODUCTION TO APPLIED SECURITY ANALYSIS**  
2 credits.

Only open to students in the Applied Security Analysis Program (ASAP). Focuses on industry analysis and security selection, with particular emphasis on identification of value drivers and on communicating the idea to a portfolio manager.

**Requisites:** Open to MBA Applied Security Analysis Program stdts only

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FINANCE 736 – INTRODUCTION TO APPLIED PORTFOLIO MANAGEMENT**  
2 credits.

The spring semester course for first year students in Applied Security Analysis Program (ASAP). Focuses on portfolio management, including development and implementation of the decision making process.

**Requisites:** Open to MBA Applied Security Analysis Program students only

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**FINANCE 740 – ANALYSIS OF FIXED INCOME SECURITIES**  
3 credits.

Detailed coverage of fixed income securities and their derivatives; asset backed/mortgage backed securities; pricing and portfolio strategies; term structures models and other analytical tools.

**Requisites:** FINANCE 700 and General Business 704

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**FINANCE/INTL BUS 745 – MULTINATIONAL BUSINESS FINANCE**  
3 credits.

Theory of business finance as applied to the operations of multinational firms; financial analysis and control of foreign investment decisions; working capital management; multinational credit institutions and capital markets; special accounting problems and trends in international monetary affairs.

**Requisites:** FINANCE 700 or equiv

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**FINANCE 750 – MERGERS AND ACQUISITIONS**  
3 credits.

Study of the market for corporate control including mergers and tender offers. Motives for business combinations; impacts on security holders, managers, labor, economic efficiency; federal and state laws; offensive and defensive strategies. Term paper involving comprehensive analysis of issues.

**Requisites:** FINANCE 700 and, either FINANCE 726 or FINANCE 635

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**FINANCE 755 – CORPORATE RESTRUCTURING & REORGANIZATION**  
3 credits.

Financial policy decisions such as working capital management, dividend policy, capital structure and cost. Case studies emphasized.

**Requisites:** FINANCE 700 and either FINANCE 726 or FINANCE 635

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**FINANCE 757 – ENTREPRENEURIAL FINANCE**  
3 credits.

About a half of all new businesses fail in the first five years. This course offers the tools, state-of-the-art valuation methods, and practical knowledge that are needed to make appropriate financing decisions in such highly uncertain environments.

**Requisites:** FINANCE 700, OTM 705, and ACCT I S 700

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**FINANCE 765 – CONTEMPORARY TOPICS**  
1-4 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**FINANCE 799 – READING AND RESEARCH-FINANCE**

1-6 credits.

Individual work suited to the needs of graduate students may be arranged both during regular sessions and the intersession periods.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**FINANCE 830 – ADVANCED DERIVATIVE SECURITIES**

3 credits.

This course covers the design of new financial securities, advanced techniques for pricing and measuring the risks of derivative securities, and strategies employing derivative securities. Applications include the pricing and use of swaps, mortgage-backed securities, exotic options, and corporate securities with embedded options.

**Requisites:** FINANCE 720 or equiv

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**FINANCE 835 – APPLIED SECURITY ANALYSIS AND INVESTMENT MANAGEMENT I**

5 credits.

The management of an actual portfolio of investments. Students engage in security analysis, develop a portfolio policy, and participate in field research such as trips to interview the management of potential portfolio acquisitions.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FINANCE 836 – APPLIED SECURITY ANALYSIS AND INVESTMENT MANAGEMENT II**

4 credits.

Continuation of FINANCE 835.

**Requisites:** FINANCE 835 cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**FINANCE 850 – APPLIED CORPORATE FINANCE I**

4 credits.

Advanced corporate finance course that provides graduate students practical experience by working on consulting projects. Students work on applied projects in the areas of capital budgeting, capital structure and cash distribution policies. Emphasis on application of theoretical corporate finance concepts.

**Requisites:** Cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FINANCE 851 – APPLIED CORPORATE FINANCE II**

5 credits.

Students apply advanced corporate finance training in the areas of real options, mergers and acquisitions, and corporate restructuring and reorganization to problems provided by corporate sponsors. Development of analytical, written and oral presentation skills through presentations to the corporate sponsors.

**Requisites:** FINANCE 850 cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**FINANCE 920 – THEORY OF FINANCE**

3 credits.

Intensive review of modern theories of corporate finance and investments.

**Requisites:** PhD stdt in finance or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FINANCE 970 – SEMINAR- INVESTMENTS (PH.D.)**

3 credits.

Intensive study and critical examination of recent empirical and theoretical literature investments.

**Requisites:** Cons inst or all of the following crses: FINANCE 920, 921, ECON 709, 710

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**FINANCE 971 – SEMINAR-CORPORATE FINANCE (PH.D.)**

3 credits.

Intensive study and critical examination of recent empirical and theoretical literature in corporate finance.

**Requisites:** Cons inst or all of the following crses: FINANCE 920, 921, ECON 709, 710

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**FINANCE 972 – TOPICS SEMINAR-FINANCE PHD**

3 credits.

Special topics of current or emerging interest in financial economics.

**Requisites:** PhD stdt in finance or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**FINANCE 973 – SEMINAR-WORKSHOP IN FINANCE**

2 credits.

Seminar primarily devoted to the generation of original research in the field of finance for the Ph.D. dissertation and subsequent publication in the academic literature.

**Requisites:** Open to PhD stdts in finance and with cons inst, to advanced Grad stdts in related fields

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**FINANCE 990 – FINANCE INDEPENDENT RESEARCH PHD THESIS**

1-12 credits.

Individual work to complete dissertation requirement of Ph.D. program.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**FINANCE 999 – READING AND RESEARCH-FINANCE PHD**

1-6 credits.

Individual work suited to the needs of Ph.D. students may be arranged both during regular sessions and during the intersession periods.

**Requisites:** PhD st cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

## FOLKLORE PROGRAM (FOLKLORE)

**FOLKLORE 100 – INTRODUCTION TO FOLKLORE**

3 credits.

Surveys folklore in the United States and around the world, with a comparative emphasis on ways in which individuals and groups use beliefs, songs, stories, sayings, dances, festivals, and artifacts to address issues of identity, authenticity, and authority, in complex societies.

**Requisites:** Open to Fr

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FOLKLORE/ASIAN AM/CHICLA 102 – INTRODUCTION TO COMPARATIVE ETHNIC STUDIES**

3-4 credits.

This course introduces students to a multicultural history of the United States, focusing on each of the major ethnic groups: European Americans, African Americans, Native Americans, Chicano/as, Latino/as and Asian Americans.

**Requisites:** Fr and So only; others by cons inst

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**FOLKLORE/MUSIC 103 – INTRODUCTION TO MUSIC CULTURES OF THE WORLD**

2 credits.

Music in various parts of the non-Western world (Africa, Middle East, India, Southeast Asia, East Asia).

**Requisites:** Open to Fr

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FOLKLORE/AFRICAN 210 – THE AFRICAN STORYTELLER**

3 credits.

The oral tradition and the written word; the composition of stories, relationship between performer and audience, and transmission of tradition in various African societies.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FOLKLORE/ANTHRO/INTL ST/LINGUIS 211 – GLOBAL LANGUAGE ISSUES**

4 credits.

A series of modules, each showcasing one language and its culture. Each module tackles a major issue about language, such as extinction and revival, language and nationhood, how widely and deeply languages differ, language and worldview, writing systems and literacy, language discrimination and inequality.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**FOLKLORE 220 – THE FOLK TALE**

3 credits.

Types of heroes, social functions, and tellers; tales from four cultures.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**FOLKLORE 230 – INTRODUCTION TO AMERICAN FOLKLORE**

3 credits.

Folklore of ethnic, regional, religious, and occupational cultures, emphasizing how diverse peoples (African Americans, American Indians, Appalachians, Chicanos, Germans, Irish, Jews, Mormons, miners, service workers, etc.) use traditional festivals, artifacts, songs and stories to express their experiences within American life.

**Requisites:** Open to Fr**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**FOLKLORE/AFRICAN 270 – THE HERO AND TRICKSTER IN AFRICAN ORAL TRADITIONS**

3 credits.

Two major characters in African oral tradition as treated in narrative, epic and heroic poetry.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**FOLKLORE/LCA 279 – INTRODUCTION TO TURKISH FOLK LITERATURE**

3 credits.

Survey of major genres of Turkish folk literature including oral epic, heroic and romance tales of minstrels, mystical love poetry, fairy tales, dervish tales, legends, riddles, proverbs, and jokes with emphasis on performance contexts and cross-cultural perspectives. Open to Fr

**Requisites:** Successful completion of or exemption from Com-A requirement.**Course Designation:** Gen Ed - Communication Part B

Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2010**FOLKLORE 320 – FOLKLORE OF WISCONSIN**

3 credits.

Introduction to folk cultural groups and folklore forms of Wisconsin.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**FOLKLORE/DANCE/THEATRE 321 – JAVANESE PERFORMANCE**

2 credits.

Technique and practice of classical Javanese dance in its musical, historical and cultural contexts.

**Requisites:** Junior standing or consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**FOLKLORE/THEATRE 326 – INTRODUCTION TO ASIAN PERFORMANCE**

3-4 credits.

Issues in the study of Asian performance. Principal genres of Asian performance through study of techniques and aesthetics, and plays; East West theatre relationships.

**Requisites:** Jr st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2001**FOLKLORE/LITTRANS/MEDIEVAL/RELIG ST 342 – IN TRANSLATION: MYTHOLOGY OF SCANDINAVIA**

3-4 credits.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**FOLKLORE/ANTHRO 344 – ANTHROPOLOGICAL APPROACHES TO FOLKLORE**

3 credits.

Folklore as cultural process. Reviews interdisciplinary history of theories and methods, examining folklore in terms of genres, performance, cultural construction of gendered identities, sociology of knowledge, domination and resistance. Involves field collections. Enrollment limited to 25.

**Requisites:** Introductory Cultural Course required: ANTHRO 100, 104, or 204**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2009

**FOLKLORE/LITTRANS/MEDIEVAL 345 – IN TRANSLATION: THE SCANDINAVIAN TALE AND BALLAD**

3-4 credits.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**FOLKLORE/LITTRANS/MEDIEVAL 346 – IN TRANSLATION: THE ICELANDIC SAGAS**

3-4 credits.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**FOLKLORE/LITTRANS 347 – IN TRANSLATION: KALEVALA AND FINNISH FOLK-LORE**

3-4 credits.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**FOLKLORE/RELIG ST 352 – SHAMANISM**

3 credits.

Survey of shamanism as a religious tradition and sociocultural force in Siberian, Asian, and Native American societies. Exploration of shamanic rituals, roles, cosmology. Cultural and political uses of shamanism in traditional and modern contexts.

**Requisites:** None**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2016**FOLKLORE/RELIG ST 359 – MYTH**

3 credits.

The relationship between myth and tale, history, culture. Myth research; methodological approaches; world mythologies; myth and modern times.

**Requisites:** So st**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**FOLKLORE/LCA 374 – INDIAN FOLKLORE**

3 credits.

An introduction to Indian folklore; with all its traditions and genres; folktales, folksongs, myths, rituals, as well as literary sources like the epics.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2009**FOLKLORE 399 – DIRECTED STUDY IN FOLKLORE FOR UNDERGRADUATES**

1-3 credits.

Directed study on a folklore topic for undergraduates.

**Requisites:** Consent of instructor**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**FOLKLORE/MUSIC 401 – MUSICAL CULTURES OF THE WORLD**

3 credits.

Survey of selected musical cultures in Southeast Asia, Africa, East Asia, the Middle East, and the folk music of Europe and the Americas. Classification of musical instruments, theoretical systems, scale structures, role of music in society, relationship of music to other arts in their cultures.

**Requisites:** Cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2013**FOLKLORE/MUSIC 402 – MUSICAL CULTURES OF THE WORLD**

3 credits.

Continuation of 401.

**Requisites:** Cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013

**FOLKLORE/MUSIC 404 – MUSIC OF S.E. ASIA: TRADITION, INNOVATION, POLITICS, AND RELIGION**  
3 credits.

Considers major musical traditions of Southeast Asia in relation to historical and contemporary contexts, emphasizing religion and politics. Covers indigenous music theories, instrumental and vocal practices, cross-cultural interactions, broadcast and recording media representations, and role of music in religious and political dynamics.

**Requisites:** So st cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**FOLKLORE/AFRICAN 411 – AFRICAN POETRY**

3-4 credits.

Analysis of oral and written poetry from various African cultures.

**Requisites:** Jr st

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2008

**FOLKLORE/DANCE/THEATRE 421 – JAVANESE PERFORMANCE REPERTORY**

2 credits.

Introduction to Javanese theatre performance in a Javanese epic tradition. Includes use of Javanese gamelan music as accompaniment for dance drama.

**Requisites:** None

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**FOLKLORE/GEN&WS 428 – GENDER AND EXPRESSIVE CULTURE**

3 credits.

Examines the relationship between dominant images of women and men and their self-images, as they emerge in expressive culture in various societies.

**Requisites:** Junior standing

**Course Designation:** Breadth - Either Humanities or Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 1992

**FOLKLORE 430 – TOPICS IN AMERICAN FOLKLORE: ETHNIC STUDIES**  
3-6 credits.

Topics in American Folklore-Ethnic Studies. Topics in historical or contemporary folklore and folklife pertaining to persistently marginalized racial or ethnic groups in the United States.

**Requisites:** None

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**FOLKLORE/AMER IND/ANTHRO 431 – AMERICAN INDIAN FOLKLORE**  
3 credits.

An introduction to the genres of American Indian Folklore. Special attention is given to creation stories, trickster tales, and the relationship between folklore and historical memory.

**Requisites:** Junior standing and ANTHRO/AMER IND 314, ANTHRO/FOLKLORE/ANTHRO 344, FOLKLORE 100, FOLKLORE 230, or FOLKLORE 320

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**FOLKLORE/AMER IND/ANTHRO/GEN&WS 437 – AMERICAN INDIAN WOMEN**

3 credits.

Examines and interprets the roles of American Indian women in traditional societies, and in contemporary North America.

**Requisites:** 1 crse in Amer Ind St, ANTHRO/AMER IND 314 or Women St 223, 101, or 102

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**FOLKLORE 439 – FOODWAYS**

3 credits.

Explores artistic, social, sensory, and spiritual expressions through food that convey personal, group, and place-based identities, ethnicity, gender, and class in work and play. Reviews range of food writing and scholarly perspectives including culinary historical, structural-functional, and performance. Requires fieldwork. Cons inst for motivated Fr So stdts

**Requisites:** Jr, Sr, or Grad st, or prior coursework in folklore.

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**FOLKLORE/SCAND ST 440 – SCANDINAVIAN AMERICAN FOLKLORE**

3 credits.

Examines the verbal, musical, customary, and material folklore of Scandinavian Americans, with emphasis on the upper Midwest. Requires field and archival research.

**Requisites:** Jr st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**FOLKLORE/SCAND ST 443 – SAMI CULTURE, YESTERDAY AND TODAY**

4 credits.

Interdisciplinary study of Sami (Lapp) people of Scandinavia past and present. Indigenous modes of expression and worldview, contemporary cultural and political activism. Extensive discussion of connections to Native American and Inuit experiences; rise of U.S. and other indigenous peoples' movements.

**Requisites:** Jr st or cons inst**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**FOLKLORE/SLAVIC 444 – SLAVIC AND EAST EUROPEAN FOLKLORE**

3 credits.

Oral traditional literature of Eastern Europe: ritual and lyric poetry, epic, and folktale.

**Requisites:** Junior standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**FOLKLORE/MEDIEVAL/SCAND ST 446 – CELTIC-SCANDINAVIAN CULTURAL INTERRELATIONS**

3 credits.

Examination of shared traditions and historical connections between the North and Northwest of Europe. Readings of medieval and pre-modern Scandinavian, Scottish, Welsh and Irish sagas, histories, talks. Discussion of the role of folklore in modern Celtic and Scandinavian societies.

**Requisites:** So st or above required, or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**FOLKLORE 451 – THE SUPERNATURAL IN THE MODERN WORLD**

3 credits.

Explores evidence of belief in the supernatural in the modern world as it appears in the context of folk religion, folk medicine, legends, folk drama, ritual and custom, and media accounts and presentations. Surveys scholarly approaches to the topic.

**Requisites:** Jr st or cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** No**Last Taught:** Spring 2015**FOLKLORE 460 – FOLK EPICS**

3 credits.

Oral nature, structure, performance traditions, and epic ideology, from various world areas.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**FOLKLORE/GEN&WS 467 – WOMEN AND POLITICS IN POPULAR CULTURE AND FOLKLORE**

3 credits.

How popular culture and folklore have been used by women as rhetorical tools that promote deliberation and debate, broaden political engagement, and advance particular social identities. Global content, with examples from around the world.

**Requisites:** A Gender and Women's Studies course, or a Folklore course or Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**FOLKLORE/GEN&WS 468 – FEMINISM, FOLKLORE AND COMPARATIVE LITERATURE**

3 credits.

Explores feminism, folklore and comparative literature from a variety of perspectives drawing from scholarship in feminist philosophy, folklore, anthropology, critical cultural studies, and postcolonial theory.

**Requisites:** 3 credits of GenWS, or 3 Credits of Folklore, or consent of instructor**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015

**FOLKLORE/AFRICAN 471 – ORAL TRADITIONS AND THE WRITTEN WORD**

3-4 credits.

Analyses and comparisons of African oral narrative-performances and African written literatures.

**Requisites:** AFRICAN/FOLKLORE 210, 402, or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**FOLKLORE/L I S 490 – FIELD METHODS AND THE PUBLIC PRESENTATION OF FOLKLORE**

3 credits.

The course combines a fieldwork practicum with scrutiny of the cultural, political, and ethical dimensions underlying the documentation and public presentation of folklore through festivals, exhibitions, publications, and audio-visual productions.

**Requisites:** Sr st, two crses in folklore or cultural anthro or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**FOLKLORE 491 – PRACTICUM IN PUBLIC FOLKLORE**

1-3 credits.

Offers professional experiences to qualified students who work as interns with a public agency or a private non-profit organization involved in public folklore projects.

**Requisites:** Junior standing or higher and FOLKLORE/L I S 490 required

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**FOLKLORE 510 – FOLKLORE THEORY**

3 credits.

Symbolical, psychoanalytic, Marxian, structuralist and performance theory models for analyzing expressive culture. Topics include play, ritual, festival, food, customs, class and the symbolism, structure and politics of narrative.

**Requisites:** Crse in anthro or folklore or cons inst

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**FOLKLORE/DS 512 – MATERIAL CULTURE ANALYSIS: THE ARTS AND THE CONSUMER SOCIETY**

3 credits.

The meanings of objects—both art objects and consumer goods. Interactions between people and objects; "decoding" objects as primary sources of information about the people/cultures that make and use them.

**Requisites:** Junior standing

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**FOLKLORE/MUSIC 515 – PROSEMINAR IN ETHNOMUSICOLOGY**

3 credits.

Introduction to ethnomusicology, including historical survey of major works in the field, classification of musical instruments, measurement of tuning systems and concepts of scale, mode and rhythm in non-Western music.

**Requisites:** MUSIC/FOLKLORE 401-402 or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**FOLKLORE 517 – THE IRISH TRADITION**

3 credits.

Study of the Irish literary tradition from the Middle Ages to the present day, with an emphasis on folk culture and its influence.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**FOLKLORE 518 – THE SCOTTISH TRADITION**

3 credits.

Study of the Scottish literary tradition from the Middle Ages to the present day, with an emphasis on folk culture and its influence.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**FOLKLORE/ANTHRO 520 – ETHNIC REPRESENTATIONS IN WISCONSIN**  
4 credits.

Representation and self-representation of ethnic cultures in Wisconsin. For example: museums, mass media, ethnic theater. Involves field work and/or archival research.

**Requisites:** ANTHRO 300 or Folklore 200 or cons inst

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2008

**FOLKLORE/COM ARTS 522 – DIGITALLY DOCUMENTING EVERYDAY COMMUNICATION**

3 credits.

Teaches the use of digital recording technologies, archiving, and analysis of everyday communication and culture. Surveys scholarly approaches to everyday expressive communication.

**Requisites:** Junior standing

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**FOLKLORE 530 – TOPICS IN FOLKLORE**

1-3 credits.

The topic will vary with the instructor; may be repeated with different content.

**Requisites:** Jr st or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**FOLKLORE/MUSIC 535 – AMERICAN FOLK AND VERNACULAR MUSIC**

3 credits.

An ethnographic, historical examination of immigrant and indigenous "roots" musical genres (blues, hillbilly, powwow, polka, conjunto, etc.) in relation to technological, commercial, artistic, and socio-political forces in American life.

**Requisites:** Jr st

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**FOLKLORE/ANTHRO/MUSIC/THEATRE 539 – THE FOLKLORE OF FESTIVALS AND CELEBRATIONS**

3 credits.

Survey of interdisciplinary literature on social/performative folklore aesthetics and environments by in-depth study of three festivals and ceremonies. Required field trips.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**FOLKLORE 540 – LOCAL CULTURE AND IDENTITY IN THE UPPER MIDWEST**

3 credits.

Addresses different aspects of community life and culture in the Upper Midwest; topics include ethnic groups, religious life, cultural landscapes, oral narrative, music, and material culture.

**Requisites:** Junior standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FOLKLORE 560 – FOLKLORE IN A DIGITAL AGE**

3 credits.

Explores traditional forms and performances as they emerge in contemporary communication technologies. Surveys scholarly approaches to the topic.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**FOLKLORE 630 – SEMINAR ON AMERICAN FOLKLORE**

3 credits.

Focuses on American folk and popular culture as it relates to expressive behavior using the work of folklorists, anthropologists, historians and literary scholars.

**Requisites:** A lower level crse in folklore or anthro or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**FOLKLORE/ANTHRO 639 – FIELD SCHOOL: ETHNOGRAPHY OF WISCONSIN FESTIVALS**

6-8 credits.

A review of key methodological and theoretical approaches for studying festivals, in situ observation of summer festivals and small town folk and ethnic museums, and supervised writing and photographic assignments.

**Requisites:** Cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2011**FOLKLORE/DS 640 – TOPICS IN ETHNOGRAPHIC TEXTILES**

3 credits.

Ethnographic survey of non-western textiles; technological, aesthetic, functional, and historical aspects. Geographical area varies: African, East Asian, Southeast Asian, Ibero-American or Native American textiles.

**Requisites:** DS 430**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2011**FOLKLORE/DS 655 – COMPARATIVE WORLD DRESS**

3 credits.

Variations in form, function and meaning of dress in diverse social and cultural contexts; dress as an art form.

**Requisites:** Junior standing**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2010**FOLKLORE 699 – INDEPENDENT STUDY IN FOLKLORE (GRADUATE)**

1-3 credits.

Independent study in an area related to folklore for graduate students.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**FOLKLORE/MUSIC 915 – SEMINAR IN ETHNOMUSICOLOGY**

3 credits.

Topics in ethnomusicology within a cross-cultural framework; melodic typology, scale and tuning systems, mode, rhythm, ornamentation, improvisation techniques, oral and written traditions of composition, notation systems, and function of music society.

**Requisites:** MUSIC/FOLKLORE 401 or 402, 515**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**FOLKLORE 970 – SEMINAR IN FOLKLORE**

3 credits.

Thorough study of significant folklore topics. Content will vary with each offering.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**FOOD SCIENCE (FOOD SCI)****FOOD SCI 1 – COOPERATIVE EDUCATION/CO-OP IN FOOD SCIENCE**

1 credit.

Full-time off-campus work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career. Students receive credit only for the term in which they are actively enrolled and working.

The same work experience may not count towards credit in Food Sci 399.

**Requisites:** So st, and consent of supervising instructor and academic advisor.**Repeatable for Credit:** No**FOOD SCI 120 – SCIENCE OF FOOD**

3 credits.

Lecture. Relationship between food, additives, processing and health. How foods are processed. Current food controversies.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2009**FOOD SCI 201 – DISCOVERING FOOD SCIENCE**

1 credit.

Introduction to the food industry for incoming (freshmen and transfers) Food Science majors. Provides a brief introduction to the different areas of study and career opportunities within the food industry.

**Requisites:** Fr or So st or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2017**FOOD SCI 289 – HONORS INDEPENDENT STUDY**

1-2 credits.

Inter-Ag 288

**Requisites:** Enrolled in the CALS Honors Program Sophomore or Junior standing.**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions

**FOOD SCI 299 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Open to Freshmen, Sophomore or Junior standing written consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**FOOD SCI 301 – INTRODUCTION TO THE SCIENCE AND TECHNOLOGY OF FOOD**

3 credits.

Introduction to the science and the technology of food manufacture.

Course covers the basic chemical, physical and microbiological properties of food and manipulation of these properties in the manufacture of food products.

**Requisites:** Declared major in Food Science, Nutritional Sciences (Dietetics, International Agriculture and Natural Resources) or Biological Systems Engineering; and algebra, 1 semester of general chemistry, and 1 semester biology, or concurrent registration, or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FOOD SCI/AN SCI 305 – INTRODUCTION TO MEAT SCIENCE AND TECHNOLOGY**

4 credits.

Application of biological, technological, and economical principles to muscle and related tissue utilized for food.

**Requisites:** Zoo 101102, or Zoo 151152, CHEM 103

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**FOOD SCI/AN SCI 321 – FOOD LAWS AND REGULATIONS**

1 credit.

Food laws and regulations, regulatory and commercial grading standards used in the food industry.

**Requisites:** Jr st or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**FOOD SCI/MICROBIO 324 – FOOD MICROBIOLOGY LABORATORY**

2 credits.

Lab exercises dealing with food preservation, spoilage, and food poisoning. Isolation, identification and quantification of specific microbes occurring in foods, and food fermentations by bacteria and yeast.

**Requisites:** (MICROBIO 102 or MICROBIO 304) and MICROBIO/FOOD SCI/MICROBIO 325 or concurrent enrollment

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FOOD SCI/MICROBIO 325 – FOOD MICROBIOLOGY**

3 credits.

Principles of food preservation, epidemiology of foodborne illness, agents of foodborne illness, food fermentations and biotechnology.

**Requisites:** MICROBIO 101, MICROBIO 303, or M M & I 301

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FOOD SCI 375 – SPECIAL TOPICS**

1-3 credits.

Subjects of current interest to undergraduates.

**Requisites:** Cons inst

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**FOOD SCI 399 – COORDINATIVE INTERNSHIP/COOPERATIVE EDUCATION**

1-8 credits.

**Requisites:** So or Jr or Sr st cons supervising inst, advisor internship coordinator

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**FOOD SCI 400 – STUDY ABROAD IN FOOD SCIENCE**

1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. W.-Madison Study Abroad Program

**Requisites:** Current registration in a U.

**Repeatable for Credit:** Yes, unlimited number of completions

**FOOD SCI 410 – FOOD CHEMISTRY**

3 credits.

Nature and chemical behavior of food constituents including proteins, lipids, carbohydrates, water, and enzymes.

**Requisites:** Food Sci 301 (BC or better); CHEM 343 concurrent registration in BIOCHEM 501 or consent of instructor or ABE or PAE degree classification CHEM 343

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FOOD SCI 412 – FOOD ANALYSIS**

4 credits.

Lecture and lab. Application of quantitative techniques to the determination of composition and quality of food products.

**Requisites:** STAT 301 or 371 (or equivalent) Food Sci 410, or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**FOOD SCI 432 – PRINCIPLES OF FOOD PRESERVATION**

3 credits.

Fundamentals of food preservation methods: post-harvest, thermal processing, refrigeration and freezing, control of water activity, chemical preservation, nonthermal methods and control of food packaging.

**Requisites:** FOOD SCI/MICROBIO/FOOD SCI 325, FOOD SCI 410 and 440; or declared in Biological Systems Engineering and FOOD SCI/MICROBIO/FOOD SCI 325 and FOOD SCI 410

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**FOOD SCI 437 – FOOD SERVICE OPERATIONS**

3 credits.

Principles and methods of technical operations in quantity foodservice systems; menu planning, purchasing, production, service and cost control.

**Requisites:** Students in the dietetics program be ADI approved as a new prerequisite for this course and have taken Food Science 301

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FOOD SCI 438 – FOOD SERVICE OPERATIONS LAB**

1 credit.

Procurement and production methods used to control costs in foodservice operations; field trips.

**Requisites:** Con reg Food Sci 437

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FOOD SCI 440 – PRINCIPLES OF FOOD ENGINEERING**

3 credits.

Lecture. Application of engineering principles in the analysis of food process operations: properties of gases and vapors, psychrometrics, material and energy balances, fluid flow, heat transfer, microwave heating, mass transfer, packaging film permeability, dehydration.

**Requisites:** Food Sci 301 (BC or better); MATH 211 or MATH 221 (or equivalent); PHYSICS 103 (or equivalent); or consent of instructor

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FOOD SCI/BSE/M E 441 – RHEOLOGY OF FOODS AND BIOMATERIALS**

3 credits.

Fundamentals of rheology and rheological evaluations of food and biomaterials; structure-function relationships.

**Requisites:** PHYSICS 201 or CBE/B M E 320 or ME 363 or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**FOOD SCI 464 – STATISTICS FOR FOOD INDUSTRY QUALITY CONTROL**

3 credits.

Application of statistics for the purpose of monitoring and controlling food industry production. Applications of discrete and continuous distributions as tools for inferring production quality and efficiency.

Topics include hypothesis formation and testing, confidence intervals, and graphics for presentation.

**Requisites:** Stat 201 or equiv

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**FOOD SCI/AN SCI/DY SCI/SOIL SCI 472 – ANIMAL AGRICULTURE AND GLOBAL SUSTAINABLE DEVELOPMENT**

1 credit.

This course examines issues related to global agriculture and healthy sustainable development. Using a regional approach and focusing on crops and livestock case studies, students will learn the interdependence between US agriculture and agriculture in emerging economies.

Some topics covered include population and food, immigration, the environment; crop and livestock agriculture; global trade; sustainability; food security, the role of women in agriculture, and the role of dairy products in a healthy diet.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**FOOD SCI/AN SCI/DY SCI/SOIL SCI 473 – INTERNATIONAL FIELD STUDY IN ANIMAL AGRICULTURE AND SUSTAINABLE DEVELOPMENT**

2 credits.

This course is the field study component to DY SCI/AN SCI/FOOD SCI/SOIL SCI 472, which examines issues related to global agriculture and healthy sustainable development. Using a regional approach and focusing on crops and livestock case studies, students will learn the interdependence between US agriculture and agriculture in emerging economies. Some topics covered include population and food, immigration, the environment; crop and livestock agriculture; global trade; sustainability; and the role of women in agriculture and the role of dairy products in a healthy diet.

**Requisites:** DY SCI/AN SCI/FOOD SCI/SOIL SCI 472

**Repeatable for Credit:** No

**FOOD SCI 511 – CHEMISTRY AND TECHNOLOGY OF DAIRY PRODUCTS**

3 credits.

Chemistry of milk components (i.e. protein, lipids, carbohydrate, salts, enzymes) with an emphasis on chemical and physical changes that occur during the manufacture of a range of milk products (i.e. ice cream, butter, cheese). Dairy technology and microbiological quality.

**Requisites:** Food Sci 410, or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**FOOD SCI 512 – PRINCIPLES OF FOOD CHEMISTRY-LAB**

2 credits.

Lectures and demonstrations on methodology in food chemistry; experiments on the chemistry of organic constituents; lipids, proteins, carbohydrates and other organic constituents of foods.

**Requisites:** Food Sci 410 or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2009**FOOD SCI 514 – INTEGRATED FOOD FUNCTIONALITY**

4 credits.

Molecular basis of food functional properties; impact of ingredients and processing on functional properties (texture, flavor, nutrition and structure); design of new or reformulating foods to meet specific quality expectations.

**Requisites:** Food Sci 602 or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**FOOD SCI/AN SCI 515 – COMMERCIAL MEAT PROCESSING**

2 credits.

Principles and procedures in the commercial manufacture of processed meat products; sausage manufacturing, curing, smoking, freezing and packaging. Zool 101 102, or Zool 151 152 (recommended); CHEM 103

**Requisites:** An Sci 305 or Food Sci 410 or cons inst.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**FOOD SCI 532 – INTEGRATED FOOD MANUFACTURING**

4 credits.

Procedures used to process and preserve foods on a commercial basis, with emphasis on concentration, dehydration and fractionation process, plant sanitation/HACCP/GMP, statistical process control, and environmental impacts..

**Requisites:** Declared in Food Science or Biological Systems Engineering; and FOOD SCI 432**Repeatable for Credit:** No**Last Taught:** Fall 2017**FOOD SCI 535 – CONFECTIONERY SCIENCE AND TECHNOLOGY**

3 credits.

Through a combination of on-line lectures, classroom activities, evaluation of commercial samples and discovery-based labs, the science and technology of confections from hard candy to chocolate will be covered.

**Requisites:** FOOD SCI 410 and FOOD SCI 432**Repeatable for Credit:** No**Last Taught:** Fall 2017**FOOD SCI 537 – ORGANIZATION AND MANAGEMENT OF FOOD AND NUTRITION SERVICES**

3 credits.

Lecture. Principles of organization; the management process in foodservice systems; allocation of resources; budget development, personnel supervision and evaluation.

**Requisites:** Food Sci 437 M H R 300**Repeatable for Credit:** No**Last Taught:** Spring 2015**FOOD SCI/BSE 542 – FOOD ENGINEERING OPERATIONS**

4 credits.

Lectures and experiments in food engineering operations selected from topics such as: thermodynamics, transport processes, biological kinetics and bioreactor design, thermal process calculations, separation processes, process instrumentation and control, process design and economics, and the use of computers.

**Requisites:** Food Sci 440, Sr st, or cons inst**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Biological Sci. Counts toward the Natural Sci req Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2010**FOOD SCI 550 – FERMENTED FOODS AND BEVERAGES**

2 credits.

Lecture. Chemistry, microbiology, and technology of foods and beverages in which fermentations are important (e.g. cheese, bread, pickles, beer). Fermentation techniques in developing new foods and food additives. Instrumentation and mechanization of food fermentations. Field trips.

**Requisites:** BIOCHEM 501 or consent of instructor**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**FOOD SCI 551 – FOOD FERMENTATION LABORATORY**

1 credit.

Offers students the opportunity to learn to produce fermented beverages and dairy products in laboratory and scalable production facilities. Individual labs are designed to introduce students to the chemical and physical basis for development of specific characteristics associated with individual styles of products as well as analytical methods to qualify those characteristics. Course is intended for students who are 21 years of age or older and have completed or are concurrently enrolled in FOOD SCI 550.

**Requisites:** Consent of Instructor**Repeatable for Credit:** No**Last Taught:** Spring 2017

**FOOD SCI 600 – PROFESSIONAL PRACTICE IN FOOD SCIENCE**

1 credit.

Addresses information retrieval, use of statistics in experimental design, professional responsibility and ethics; mechanics of writing technical reports and giving oral presentations; proposal writing; creative thinking and problem-solving.

**Requisites:** Sr or Grad st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2010**FOOD SCI 602 – SENIOR PROJECT**

2 credits.

Part one of senior capstone requirement. Working as teams, students conduct research around a problem pertinent to the food industry. Weekly discussions plus laboratory. Data collection and analysis and report writing are critical components of this course.

**Requisites:** Food Sci 412 Sr st in food sci, or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**FOOD SCI 603 – SENIOR SEMINAR**

1 credit.

Part two of senior capstone requirement. Students will present data gathered and analyzed as part of the senior project.

**Requisites:** FOOD SCI 602**Course Designation:** Gen Ed - Communication Part B**Repeatable for Credit:** No**Last Taught:** Spring 2017**FOOD SCI 610 – FOOD PROTEINS**

2 credits.

Lecture. Protein structure and functions; techniques of protein isolation and characterization; functional properties important in food processing.

**Requisites:** BIOCHEM 501 or 601 cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2016**FOOD SCI 611 – CHEMISTRY AND TECHNOLOGY OF DAIRY PRODUCTS**

3 credits.

Chemistry of milk components (i.e. protein, lipids, carbohydrate, salts, enzymes) with an emphasis on chemical and physical changes that occur during the manufacture of a range of milk products (i.e. ice cream, butter, cheese). Dairy technology and microbiological quality.

**Requisites:** Food Sci 310 or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**FOOD SCI/BSE 642 – FOOD AND PHARMACEUTICAL SEPARATIONS**

2-3 credits.

Basic principles of production-scale separation processes in the food and pharmaceutical industries including gravity sedimentation and centrifugation, extraction, adsorption, chromatography, precipitation, conventional and membrane filtration, crystallization, and drying. Third credit adds group term project, integrating principles with experiments, defined by students' interests.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**FOOD SCI/MICROBIO 650 – ADVANCED MICROBIOLOGY OF  
FOODBORNE PATHOGENS**

3 credits.

Infectious and toxigenic agents of foodborne disease: detection, identification, and control methods; ecology and survival strategies of pathogens in foods; virulence mechanisms of foodborne pathogens.

**Requisites:** Bact/Food Sci 325 or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2010**FOOD SCI 681 – SENIOR HONORS THESIS**

2-4 credits.

**Requisites:** Honors program candidacy**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** No**Last Taught:** Fall 2013**FOOD SCI 682 – SENIOR HONORS THESIS**

2-4 credits.

Continuation of 681.

**Requisites:** Honors program candidacy Food Sci 682**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** No**Last Taught:** Spring 2014**FOOD SCI 699 – SPECIAL PROBLEMS**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**FOOD SCI/AN SCI 710 – CHEMISTRY OF THE FOOD LIPIDS**

2 credits.

Chemical constitution, structures, reactions, stereochemistry of fats, phospholipids, related compounds; methods of isolation, characterization; synthesis; relation of structure to physical properties.

**Requisites:** BIOCHEM 601; CHEM 341 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**FOOD SCI 718 – COLLOID CHEMISTRY OF FOODS**

2 credits.

Application of principles of colloid chemistry to various food colloids, for example, casein, milk fat globules, gelatin, gluten, starch. These systems are studied from the following standpoints: size distribution; transport behavior; suspension stability.

**Requisites:** CHEM 561 or 565 or equiv; BIOCHEM 501 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2010**FOOD SCI 799 – PRACTICUM IN FOOD SCIENCE TEACHING**

1-3 credits.

Teaching experience for PhD candidates.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**FOOD SCI 875 – SPECIAL TOPICS**

1-3 credits.

New graduate and courses of current interest.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**FOOD SCI 900 – SEMINAR ADVANCED**

1 credit.

Research literature and current departmental research.

**Requisites:** Food Sci 600 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**FOOD SCI 990 – RESEARCH**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**FOREST AND WILDLIFE ECOLOGY  
(F&W ECOL)****F&W ECOL 1 – COOPERATIVE EDUCATION/CO-OP IN FOREST & WILDLIFE ECOLOGY**

1 credit.

Full-time off-campus work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career. Students receive credit only for the term in which they are actively enrolled and working. The same work experience may not count towards credit in FW Ecol 399.

**Requisites:** So st, and consent of supervising instructor and academic advisor.**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**F&W ECOL 100 – INTRODUCTION TO FORESTRY**

2 credits.

Relationship of humans to forest resources. Roles of the forester in manipulating the forest environment to produce goods and services desired by contemporary society. Current issues in forest resource management and policy, with emphasis on the relation to environmental quality and natural resources.

**Requisites:** Open to Fr**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**F&W ECOL 101 – ORIENTATION TO WILDLIFE ECOLOGY**

1 credit.

Introduction to the Wildlife Ecology major and the profession of wildlife management/conservation. Emphasis on preparing students for a successful career.

**Requisites:** Declared in Wildlife Ecology major**Repeatable for Credit:** No**Last Taught:** Fall 2017**F&W ECOL 110 – LIVING WITH WILDLIFE - ANIMALS, HABITATS, AND HUMAN INTERACTIONS**

3 credits.

A general survey course of wildlife and wildlife conservation for non-majors. Basic characteristics and management of wildlife populations and habitats. Human perceptions and interactions with wildlife. Current issues in wildlife management and conservation.

**Requisites:** Open to all undergrads**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**F&W ECOL 230 – INTRODUCTION TO RESOURCE BASED RECREATION**

1 credit.

An overview of outdoor recreation definition; concepts; behaviors; motivation; and trends relative to agencies with responsibilities for the management of protected areas such as parks and public lands.

**Requisites:** Open to Freshmen**Repeatable for Credit:** No**Last Taught:** Fall 2008**F&W ECOL/C&E SOC/SOC 248 – ENVIRONMENT, NATURAL RESOURCES, AND SOCIETY**

3 credits.

Introduces the concerns and principles of sociology through examination of human interaction with the natural environment. Places environmental issues such as resource depletion, population growth, food production, environmental regulation, and sustainability in national and global perspectives.

**Requisites:** Open to Fr**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**F&W ECOL 289 – HONORS INDEPENDENT STUDY**

1-2 credits.

Inter-Ag 288

**Requisites:** Enrolled in the CALS Honors Program Sophomore or Junior standing.**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2001**F&W ECOL 299 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Open to Freshmen, Sophomore or Junior standing written consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**F&W ECOL 300 – FOREST BIOMETRY**

4 credits.

Basic concepts of statistical inference and sampling theory as applied to forestry. Estimation of tree and forest characteristics. Use of aerial photographs; principles of data processing; information gathering and decision making under uncertainty.

**Requisites:** Stat 201 or STAT 224 or STAT 301 or equiv**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**F&W ECOL 305 – FOREST OPERATIONS**

2 credits.

Introduction to forestry operations in the implementation of forest plans, including site preparation, stand establishment, and harvesting systems. Analysis of costs and productivity, including system balance, marketing, timber procurement, and contractual services.

**Requisites:** Forestry 300 or 410**Repeatable for Credit:** No**Last Taught:** Spring 2009**F&W ECOL 306 – TERRESTRIAL VERTEBRATES: LIFE HISTORY AND ECOLOGY**

4 credits.

Life history, ecology, distribution, and taxonomy of reptiles, amphibians, birds, and mammals. Birds will receive less emphasis. Primary focus is on Wisconsin species, including conservation threats, but covers all major North American families, and surveys major groups of the world. Designed as a foundation for detailed study of vertebrates or to satisfy the need for a scientific introduction to Wisconsin vertebrates.

**Requisites:** Sophomore standing an elementary course in Zoology**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**F&W ECOL/HORT/LAND ARC/PL PATH 309 – DISEASES OF TREES AND SHRUBS**

3 credits.

Fundamental disease concepts, pathogens and causal agents, diagnosis, and biologically rational principles and practices for management of diseases of trees and shrubs. For degree students and professionals. One extended lecture with discussion and one lab or field trip per week.

**Requisites:** One semester of plant sci or consent of instructor**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**F&W ECOL 312 – WOOD IDENTIFICATION**

1 credit.

Introduction to gross and microscopic characteristics of wood. Identification of visual characteristics of twenty-eight major U.S. wood species using 10x magnification.

**Requisites:** So st**Repeatable for Credit:** No**Last Taught:** Spring 2010

**F&W ECOL 314 – WOOD, INDUSTRIAL USE, AND SOCIETY**

3 credits.

This course is an introduction to wood as an industrial raw material with content covering the biological nature of wood, mechanical and biological properties of wood, technology and products of wood, and the regional, national, and global demand for wood and forest products.

**Requisites:** Forestry 312 or con reg or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2010**F&W ECOL 318 – PRINCIPLES OF WILDLIFE ECOLOGY**

3 credits.

Major environmental factors affecting wildlife; structure and behavior of wildlife populations; regional wildlife communities and their conservation. Open to Fr. Restricted to Wildlife Ecology majors

**Requisites:** High School biology.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**F&W ECOL 330 – RESOURCE-ORIENTED RECREATION MANAGEMENT**

3 credits.

Description and evaluation of outdoor recreation resource management problems and issues on public lands; analysis of the influence of different organizational structures and decision-making strategies on planning, resource management and conflict resolution; examination of vegetation and wildlife management for preservation and recreation purposes.

**Requisites:** Junior standing; intro courses in stats, ecology poli sci, or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2009**F&W ECOL/ZOOLOGY 335 – HUMAN/ANIMAL RELATIONSHIPS: BIOLOGICAL AND PHILOSOPHICAL ISSUES**

3 credits.

An interdisciplinary approach to our complex and often contradictory relationships with non-human animals, including information about the nature, needs and behavior of human and non-human animals in relation to our personal and professional interactions with them.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**F&W ECOL/ENVIR ST/ZOOLOGY 360 – EXTINCTION OF SPECIES**

3 credits.

A comprehensive treatment of the ecology, causes, and consequences of species extinction. Ecology and problems of individual species, habitat alteration and degradation, socio-economic pressures and conservation techniques and strategies. An intro biology course strongly recommended

**Requisites:** So st.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**F&W ECOL/ENVIR ST/G L E/GEOG/GEOSCI/LAND ARC 371 – INTRODUCTION TO ENVIRONMENTAL REMOTE SENSING**

3 credits.

Introduction to the Earth as viewed from above, focusing on use of aerial photography and satellite imagery to study the environment. Includes physical processes of electromagnetic radiation, data types and sensing capabilities, methods for interpretation, analysis and mapping, and applications.

**Requisites:** MATH 114 Sophomore standing**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**F&W ECOL/ENVIR ST/G L E/GEOG/GEOSCI/LAND ARC 372 – INTERMEDIATE ENVIRONMENTAL REMOTE SENSING**

3 credits.

Examines intermediate-level concepts in information extraction, data processing and radiative transfer relevant to remote sensing of the environment. Includes transforms, image correction, classification algorithms and change detection, with emphasis on applications for land use planning and natural resource management.

**Requisites:** Envir St 301 or consent of instructor, sophomore standing**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**F&W ECOL 375 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Cons inst**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**F&W ECOL 379 – PRINCIPLES OF WILDLIFE MANAGEMENT**

3 credits.

Ways of conserving desired numbers of animals for the overall best interests of society, be they aesthetic, ecological, economic, commercial or recreational; includes management of endangered species, exploited species, wildlife communities in nature reserves, and wildlife pests.

**Requisites:** WI Ecol 318 or equiv**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**F&W ECOL 399 – COORDINATIVE INTERNSHIP/COOPERATIVE EDUCATION**

1-8 credits.

**Requisites:** So, Jr or Sr st and cons of supervising inst, advisor, and internship program coordinator**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**F&W ECOL 400 – STUDY ABROAD IN FOREST AND WILDLIFE ECOLOGY**

1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. W.-Madison Study Abroad Program

**Requisites:** Current registration in a U.**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**F&W ECOL 401 – PHYSIOLOGICAL ANIMAL ECOLOGY**

3 credits.

Physiological adaptation and function in wild animals, primarily birds, mammals, reptiles, amphibians. Focus on interactions between animals and their environment, and relationships between animal physiology and the ecology and dynamics of populations.

**Requisites:** Jr st and basic zoology course**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**F&W ECOL/BOTANY 402 – DENDROLOGY**

2 credits.

Identification, ranges, uses, and some ecological characteristics of evergreen and deciduous woody plants, both native and cultivated; lab and field work.

**Requisites:** A 5 cr intro college crse in bot or equiv**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**F&W ECOL 404 – WILDLIFE DAMAGE MANAGEMENT**

3 credits.

Theory and application of wildlife management from a species-specific and situational perspective. Introduction to career options in wildlife damage management.

**Requisites:** F&W ECOL 379, or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2016**F&W ECOL 410 – PRINCIPLES OF SILVICULTURE**

3 credits.

Ecologically-based forest management principles for sustainable timber production, maintenance or restoration of biological diversity, and maintenance of aesthetic quality and site productivity. Includes coverage of even-aged and uneven-aged management, reforestation principles, and ecological restoration techniques.

**Requisites:** (Declared in Forest Science or Wildlife Ecology) and (BOTANY/FW ECOL/ZOOLOGY/BOTANY/F&W ECOL 460 or F&W ECOL 550) or graduate standing**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**F&W ECOL 411 – PRACTICES OF SILVICULTURE**

1 credit.

Field and some laboratory experience in utilization of ecologically-based forest management practices for sustainable timber production, maintenance or restoration of biological diversity, and maintenance of aesthetic quality and site productivity. Includes coverage of even-aged and uneven-aged management, reforestation principles, and ecological restoration techniques.

**Requisites:** Concurrent enrollment or prior completion of F&W ECOL 410**Repeatable for Credit:** No**Last Taught:** Spring 2017



**F&W ECOL 415 – TREE PHYSIOLOGY**

3 credits.

Physiological basis of development of forest trees and stands, factors affecting tree growth.

**Requisites:** Botany 350 or 500 or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**F&W ECOL 424 – WILDLIFE ECOLOGY SUMMER FIELD PRACTICUM**

2 credits.

Two week field class emphasizing research and habitat management techniques through individual and group field work, tours, demonstrations and lectures. Class held in northern Wisconsin, transportation and lodging provided.

**Requisites:** Open to wildlife ecol majors only, Jr/Sr st or cons inst

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**F&W ECOL 450 – COMMUNITIES AND FORESTS**

3 credits.

An examination on a global basis of the interactions between human communities and forests, with an emphasis on alternative approaches to community forestry management, drawing on both first and third world experiences.

**Requisites:** Sr st

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**F&W ECOL/SOIL SCI 451 – ENVIRONMENTAL BIOGEOCHEMISTRY**

3 credits.

Emphasis is given to a consideration of the processes influencing the distribution and cycling of chemical elements in native and anthropogenic ecosystem-level cycles of elements, and biogeochemical cycling in major soil-biome systems.

**Requisites:** CHEM 103-104 or equivalent

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**F&W ECOL/ENVIR ST/HISTORY 452 – WORLD FOREST HISTORY**

3 credits.

Examines world forest history, with attention to links between societal change and forest change. Examines how different peoples have used or abused the forest, how societies have struggled to establish policies governing forests, and how perceptions of forests have evolved.

**Requisites:** None

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**F&W ECOL/BOTANY 455 – THE VEGETATION OF WISCONSIN**

4 credits.

Ecology of Wisconsin plant communities: floristic composition, community structure; relationship to history, climate, soil, and geology; response to human perturbation. Lecture and lab.

**Requisites:** BOTANY 100, or BOTANY/BIOLOGY 130, or Botany/ZOOLOGY/BIOLOGY/BOTANY 151-152, or Biocore 313

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**F&W ECOL/BOTANY/ZOOLOGY 460 – GENERAL ECOLOGY**

4 credits.

Ecology of individual organisms, populations, communities, ecosystems, landscapes, and the biosphere. The interaction of organisms with each other and their physical environment. These relationships are studied, often in quantitative terms, in both field and laboratory settings; lecture and lab.

**Requisites:** Intro course in botany zoology, or Bot/Zoo 151-152, or Biocore 301 or 333; for biol sci majors only

**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**F&W ECOL/ENTOM 500 – INSECTS IN FOREST ECOSYSTEM FUNCTION AND MANAGEMENT**

2 credits.

Roles of insects in the functioning of healthy forest ecosystems, tactics for addressing challenges they pose to sustainable natural resource management, and emerging issues such as biological invasions, habitat alteration, and climate change that influence interactions among insects, their microbial associates, forests, and humans.

**Requisites:** BOTANY/BIOLOGY/ZOOLOGY 151 152 or equivalent**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**F&W ECOL 501 – FOREST FIRE BEHAVIOR AND MANAGEMENT**

1 credit.

Principles and applications of forest fire behavior, prediction, control and use; current policy issues in fire management.

**Requisites:** Forestry 100 or college level plant ecology course**Repeatable for Credit:** No**Last Taught:** Spring 2017**F&W ECOL/ENVIR ST 515 – NATURAL RESOURCES POLICY**

3 credits.

This course examines natural resources policy and law in the United States relating to forests, wildlife, and other natural resources. The course investigates the policy-making process and the role of science, values, property, economics, and justice in the development of federal and state resources policy. Students are trained in professional written and oral communication and ethical engagement in resources policy and administration.

**Requisites:** F&W ECOL 379, or 410, or consent of instructor**Course Designation:** Gen Ed - Communication Part B

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**F&W ECOL/AN SCI/ZOOLOGY 520 – ORNITHOLOGY**

3 credits.

Introduction to bird biology, ecology, and behavior. Topics include the evolutionary origin of birds and flight, anatomy and physiology, functional morphology, migration, communication, reproductive strategies, ecological adaptations and roles, and biogeographical patterns.

**Requisites:** BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102, BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151 and 152 or BIOCORE 381 and 382**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**F&W ECOL/AN SCI/ZOOLOGY 521 – BIRDS OF SOUTHERN WISCONSIN**

3 credits.

Outdoor and indoor labs/lectures emphasizing identification of southern Wisconsin birds by sight and vocalization. Two required Saturday field trips in Southern Wisconsin.

**Requisites:** BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102, BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151 and 152 or BIOCORE 381 and 382**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**F&W ECOL/HORT/SOIL SCI 524 – URBAN SOIL AND ENVIRONMENT**

3 credits.

Many environmental issues related to urbanization are derived from the manipulation of soil. By coupling contemporary literature in urban soils with soil science, students will be able to evaluate environmental issues within the urban environment and provide new ways of remediating their impact.

**Requisites:** Soil Sci 301 or 230**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**F&W ECOL/A A E/ECON 531 – NATURAL RESOURCE ECONOMICS**

3 credits.

Economic concepts and tools relating to management and use of natural resources, including pricing principles, cost-benefit analysis, equity, externalities, economic rent, renewable and nonrenewable resources, and resource policy issues.

**Requisites:** ECON 301 and MATH 211, or equiv**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**F&W ECOL/SURG SCI 548 – DISEASES OF WILDLIFE**

3 credits.

This course is designed to provide students with an overview of the issues involved across a wide range of wildlife diseases, presented within the context of ecosystem health or "one health". The primary focus of the lectures will be on the biological, epidemiological, clinical, public health and, in some cases, sociopolitical ramifications of wildlife diseases. The course will cover a wide variety of wildlife diseases caused by bacteria, viruses, parasites, prions, and environmental contaminants. Consequences associated with environmental changes on the manifestation of wildlife diseases will also be discussed. This range of diseases will be presented in order to familiarize students with the many facets involved in disease management, from animal and human health issues, to ecological and environmental considerations, to the role of society in contributing to, and managing, these diseases.

**Requisites:** Junior standing**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**F&W ECOL 550 – FOREST ECOLOGY**

3 credits.

Introduction to major abiotic and biotic factors that influence forest ecosystem composition, structure, and function. Reviews important processes that influence structure and function of forest ecosystems. Uses basic ecosystem concepts to elucidate influence of anthropogenic (including forest management) and natural disturbances on forest ecosystem structure and function.

**Requisites:** Five credit botany course**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**F&W ECOL 551 – FOREST ECOLOGY LAB**

1 credit.

Forest Ecology laboratory is the companion course for the lecture-based Forest Ecology (F&W ECOL 550). The objective of the forest ecology laboratory is to review concepts that are presented in the classroom by exposing students to the key concepts and processes discussed in lecture that can best be seen in the field or illustrated with the use of ecosystem models.

**Requisites:** F&W ECOL 550 or concurrent enrollment**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**F&W ECOL 561 – WILDLIFE MANAGEMENT TECHNIQUES**

3 credits.

Preparation of collections, analyses of food habits, sex and age determinations, censuses, trapping and banding, planting food and cover, research techniques.

**Requisites:** Cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**F&W ECOL/LAND ARC/ZOOLOGY 565 – PRINCIPLES OF LANDSCAPE ECOLOGY**

2 credits.

Landscape ecology emphasizes the importance of spatial patterns at broad scales. Concepts and applications are emphasized, especially for seniors and graduate students in applied natural resource fields. The course is also a prerequisite for Zoology/Forest Ecology 665, Advanced Landscape Ecology. Lecture format with discussion.

**Requisites:** Botany/Zoology/Forest 460, or Forest 550, a crse in stats, cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**F&W ECOL/HORT/STAT 571 – STATISTICAL METHODS FOR BIOSCIENCE I**

4 credits.

Descriptive statistics, distributions, one- and two-sample normal inference, power, one-way ANOVA, simple linear regression, categorical data, non-parametric methods; underlying assumptions and diagnostic work.

**Requisites:** College algebra: Grad st or cons inst**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**F&W ECOL/HORT/STAT 572 – STATISTICAL METHODS FOR BIOSCIENCE II**

4 credits.

Continuation of Forestry 571. Polynomial regression, multiple regression, two-way ANOVA with and without interaction, split-plot design, subsampling, analysis of covariance, elementary sampling, introduction to bioassay.

**Requisites:** Stats/Forestry/HORT/F&W ECOL/STAT 571**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**F&W ECOL 577 – COMPLEXITY AND CONSERVATION OF WHITE-TAILED DEER**

3 credits.

Solving problems that arise in the conservation and management of wildlife populations requires that managers understand and evaluate human cultural, economic, and political issues in addition to ecological issues. Students will use deer management in Wisconsin as a case study to understand the interdisciplinary nature of wildlife management while gaining practical hands-on experiences.

**Requisites:** Junior standing and declared in the Wildlife Ecology program

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**F&W ECOL 590 – INTEGRATED RESOURCE MANAGEMENT**

3 credits.

Resource management planning in state and federal land management agencies. Students apply principles by working in teams to develop a management plan for a real property by inventorying resources; developing management objectives and alternatives; and analyzing their ecological, social and institutional implications.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**F&W ECOL 599 – WILDLIFE RESEARCH CAPSTONE**

3 credits.

Capstone synthesis for wildlife ecology majors preparing themselves for a wildlife research career. Students develop a professional-quality research proposal for an extended project, carry out a pilot ecological field study, and design and implement a social survey questionnaire.

**Requisites:** Senior Standing or higher and Forest and Wildlife Ecology 561 required to enroll.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**F&W ECOL/ENTOM/M&ENVTOX/PL PATH/SOIL SCI 606 – COLLOQUIUM IN ENVIRONMENTAL TOXICOLOGY**

1 credit.

Current topics in molecular and environmental toxicology and problems related to biologically active substances in the environment. Topics vary each semester. Lectures are by resident and visiting professors and other researchers.

**Requisites:** Biology/ZOOLOGY/BIOLOGY 101, Biology/BOTANY/BIOLOGY 130, or equivalent

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**F&W ECOL/AGRONOMY/ENTOM/M&ENVTOX 632 – ECOTOXICOLOGY: THE CHEMICAL PLAYERS**

1 credit.

Introduction to natural and man-made toxins/toxicants, their distribution, transport, and fate in the environment. Includes lectures, current research presentations, and discussions.

**Requisites:** 2 sem intro biol 1 sem organic chem, or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**F&W ECOL/AGRONOMY/ENTOM/M&ENVTOX 633 – ECOTOXICOLOGY: IMPACTS ON INDIVIDUALS**

1 credit.

Addresses absorption, biotransformation, elimination of toxins in a wide variety of taxa (plants, invertebrates, vertebrates), and includes lectures, current research presentations, and discussions.

**Requisites:** MEnvTox 632, or 2 sem intro biol MEnvtox 631, or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**F&W ECOL/AGRONOMY/ENTOM/M&ENVTOX 634 – ECOTOXICOLOGY: IMPACTS ON POPULATIONS, COMMUNITIES AND ECOSYSTEMS**

1 credit.

Focuses on the impact of toxicants on populations, communities, ecosystems, and includes risk evaluation. Includes lectures, current research presentations, and discussions.

**Requisites:** MEnvTox 633, or MEnvTox 625, 626 631, or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**F&W ECOL 635 – FOREST STAND DYNAMICS**

1-2 credits.

Changes in forest species composition and structure at the stand and landscape level resulting from tree growth, competition, succession, and disturbance. Methods for reconstructing past stand development and forecasting future trajectories. Selected applications in forest management and natural areas management. Sr or Grad st

**Requisites:** Crse in silviculture or ecology (BOTANY/F&W ECOL/ZOOLOGY 460 or equiv) crse in stats.

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**F&W ECOL/BOTANY/ENVIR ST/ZOOLOGY 651 – CONSERVATION BIOLOGY**

3 credits.

Application of ecological principles and human dimensions to the conservation of biological diversity. Topics: biodiversity science; conservation planning; population ecology; habitat loss, species exploitation, invasive species, pollution; human attitudes and activities as they affect the biosphere; approaches to monitoring interventions.

**Requisites:** An ecology crse (eg, Botany/ZOOLOGY/BOTANY/F&W ECOL 460)

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**F&W ECOL/A A E/ENVIR ST 652 – DECISION METHODS FOR NATURAL RESOURCE MANAGERS**

3-4 credits.

Applications of quantitative methods, including optimization and simulation, to the management of natural resources, especially forests.

**Requisites:** MATH 211 or equiv Comp Sci 132 or equiv

**Course Designation:** Gen Ed - Quantitative Reasoning Part B  
Breadth - Biological Sci. Counts toward the Natural Sci req  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**F&W ECOL 655 – ANIMAL POPULATION DYNAMICS**

3 credits.

Fluctuations of animal populations: techniques of study, documentation, controls.

**Requisites:** WI Ecol 318 or equiv, and crse in stats

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**F&W ECOL 658 – FOREST RESOURCES PRACTICUM**

3 credits.

Field training and experience; exposure to forestry operations, equipment, procedures, and management problems.

**Requisites:** Cons inst

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

**F&W ECOL/ZOOLOGY 660 – CLIMATE CHANGE ECOLOGY**

3 credits.

The evidence that the Earth's climate is changing at unprecedented rates is now overwhelming. Environmental tipping points are being crossed and many species are adapting or failing to adapt. Climate change poses a significant problem for conserving and managing wildlife and their habitats. In this class, students will be introduced to climate change and its ecological impacts through engaging class discussions, online climate exercises, and group projects aimed at developing climate change adaptation plans.

**Requisites:** Junior or Senior standing as a Forest Science or Wildlife Ecology major; graduate student standing; FW Ecol/Zoology/BOTANY/ F&W ECOL/ZOOLOGY 460; or consent of instructor

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**F&W ECOL/BOTANY/ZOOLOGY 672 – HISTORICAL ECOLOGY**

2 credits.

Historical Ecology is an area of ecology that considers the importance of past events for current ecosystems. Concepts and applications are emphasized. Multidisciplinary emphasis, for seniors and graduate students in biological sciences, social studies, and humanities. Discussion format.

**Requisites:** Graduate or senior standing and consent of instructor

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**F&W ECOL 675 – PROFESSIONAL DEVELOPMENT IN FOREST & WILDLIFE ECOLOGY**

1 credit.

This special topics course provides opportunities for students in Forest and Wildlife Ecology to receive additional training in professional development skills relevant to their careers in natural resources.

**Requisites:** Forest Science or Wildlife Ecology major or graduate standing

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**F&W ECOL 681 – SENIOR HONORS THESIS**

2-4 credits.

Forestry research; an independent and original study guided by a staff member.

**Requisites:** Hon candidacy

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**F&W ECOL 682 – SENIOR HONORS THESIS**

2-4 credits.

Continuation of 681.

**Requisites:** Honors program candidacy Forest 681

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**F&W ECOL 691 – SENIOR THESIS**

2-4 credits.

Independent research guided by a faculty member (non-honors).

**Requisites:** Consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**F&W ECOL 692 – SENIOR THESIS**

2-4 credits.

Independent research guided by a faculty member (non-honors).

Continuation of F&W ECOL 691.

**Requisites:** Consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**F&W ECOL 699 – SPECIAL PROBLEMS**

1-4 credits.

**Requisites:** Sr st cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**F&W ECOL/ENTOM 711 – MULTIVARIATE ANALYSIS OF ECOLOGICAL AND COMMUNITY DATA**

2 credits.

This course will examine some common methods of multivariate data analysis in ecology and environmental science. Often called "community data analysis," this class will cover methods for the analysis of complex, multidimensional datasets that are collected in the study of plant, invertebrate, fish, and bird communities. We will also address the concurrent analysis of the environmental factors that may drive community distributions. All of this provides the basis for predictive modeling of distributions across landscapes. General methods we will cover include ordination (PCA, DCA, NMDS, CCA), clustering (or classification), and other comparative analyses of data matrices (ANOSIM, Mantel tests). The "class" (better called a "workshop") is designed to be applied, meaning that the objective is for students to learn in a "hands-on" way how to use these tools, and the circumstances under which their uses are either appropriate or inappropriate.

**Requisites:** Students must have Stats 571 or 572 to enroll, if a student feels that they have an equivalent background, they must get permission of the instructor to enroll

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**F&W ECOL/C&E SOC/SOC 749 – SOCIAL POLICY AND MANAGEMENT OF NATIONAL PARKS AND PROTECTED AREAS**

3 credits.

Explores the relationship of social policy to the formation and management of U.S. National Parks in the past, present and future. Implications of social policy for park systems and preserves throughout the world are addressed.

**Requisites:** Graduate or professional standing**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2010**F&W ECOL 790 – SPECIAL PROBLEMS**

1-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2009**F&W ECOL 799 – PRACTICUM IN FORESTRY AND WILDLIFE ECOLOGY TEACHING**

1-3 credits.

Instructional orientation to teaching at the higher education level in the agricultural and life sciences, direct teaching experience under faculty supervision, experience in testing and evaluation of students, and the analysis of teaching performance.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**F&W ECOL 840 – METAPOPOPULATIONS AND OTHER ADVANCED TOPICS**

3 credits.

Explore the use of metapopulation models in ecology and conservation. The course will review population dynamics, present the concepts of metapopulations and the implications to wildlife management and conservation biology.

**Requisites:** A basic crse in population dynamics**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2010**F&W ECOL 875 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**F&W ECOL/BOTANY/ZOOLOGY 879 – ADVANCED LANDSCAPE ECOLOGY**

3 credits.

Landscape ecology emphasizes spatial patterning—its development and importance for ecological processes—and often focuses on large regions. Concepts, methods, and applications of landscape ecology will be learned through lectures, readings, exercises in quantitative approaches, and an independent project.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**F&W ECOL 901 – COLLOQUIUM IN FORESTRY AND FOREST PRODUCTS**

1 credit.

Lectures, seminars, and discussion on current topics in forest biology, forest management, forest products, and recreation.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011



**F&W ECOL/AGRONOMY/ATM OCN/BOTANY/ENTOM/ENVIR ST/GEOG/ZOOLOGY 953 – INTRODUCTION TO ECOLOGY RESEARCH AT UW-MADISON**

1-2 credits.

This seminar course will introduce new graduate students to the diversity of ecologists across the UW-Madison campus. Course meetings will include discussions of key topics in professional development, research presentations by faculty members, and discussions of assigned papers with senior graduate students.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**F&W ECOL/DS/URB R PL 955 – PRACTICAL RESEARCH DESIGN AND METHODS OF EMPIRICAL INQUIRY**

3 credits.

Provides a practical introduction to basic concepts of research question formulation, research designs and alternative methods of inquiry, implications for internal validity of the research and generalizability of the findings, operational definitions and measurement validity, reliability, utility and precision.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**F&W ECOL 961 – WILDLIFE SEMINAR**

1 credit.

Monthly research reports and special topics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**F&W ECOL/ATM OCN/BOTANY/ENVIR ST/GEOG/GEOSCI/ZOOLOGY 980 – EARTH SYSTEM SCIENCE SEMINAR**

1 credit.

Topics in earth system science. Emphasis on the coupling between atmospheric, oceanic and land surface systems, involving physical geochemical and biological processes, and including interactions with human systems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**F&W ECOL 990 – RESEARCH AND THESIS**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**F&W ECOL 999 – ADVANCED INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**FRENCH (FRENCH AND ITALIAN)  
(FRENCH)****FRENCH 101 – FIRST SEMESTER FRENCH**

4 credits.

For students with no previous training in the language; oral practice and conversation, grammar, reading, vocabulary building, and study of French and Francophone cultures.

**Requisites:** Open to Freshmen**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**FRENCH 102 – SECOND SEMESTER FRENCH**

4 credits.

Continuation of FRENCH 101. Open to Freshmen

**Requisites:** FRENCH 101 or appropriate score on placement exam.**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**FRENCH 201 – FRENCH FOR SPEAKERS OF OTHER ROMANCE LANGUAGES**

4 credits.

Accelerated development of oral, reading and writing skills up to a level equivalent to that of the end of second semester French (102). Instruction draws on features shared by Romance languages, with focus on distinctions particular to French. No previous knowledge of French is required.

**Requisites:** ITALIAN 204, SPANISH 204, or PORTUG 202**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**FRENCH 203 – THIRD SEMESTER FRENCH**

4 credits.

Oral practice and conversation, grammar review, reading, vocabulary expansion, creative writing and study of French and Francophone cultures. Open to Freshmen

**Requisites:** FRENCH 102 or appropriate score on placement exam.

**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FRENCH 204 – FOURTH SEMESTER FRENCH**

4 credits.

Continuation of FRENCH 203 with more advanced materials. Open to Fr

**Requisites:** FRENCH 203 or appropriate score on placement exam.

**Course Designation:** Frgn Lang - 4th semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FRENCH 210 – SEXUALITY AND GENDER IN 20TH-CENTURY FRENCH LITERATURE**

3 credits.

This course considers novels, plays, essays, and films (in translation) written by gay and lesbian authors in 20th-century France. It traces developments in narrative and in sexual identity to show how the articulation of sexual difference influenced 20th-century literature and culture. FR210 is an introductory course in an interdisciplinary area of French studies. Taught in English.

**Requisites:** Open to Freshmen

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**FRENCH 211 – FRENCH INTERDISCIPLINARY STUDIES**

3 credits.

An introductory course in an interdisciplinary area of French studies. Taught in English.

**Requisites:** Open to Freshmen

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**FRENCH 227 – EXPLORING FRENCH: INTERMEDIATE-LEVEL COURSE FOR ENTERING STUDENTS**

3 credits.

Development of oral and written skills, based on reading and discussion of contemporary socio-cultural topics. Open to Fr entering stdts only

**Requisites:** Placement test recommendation.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FRENCH 228 – INTERMEDIATE LANGUAGE AND CULTURE**

3-4 credits.

Enhance writing and speaking proficiency through cultural readings on France and the francophone world. Review of grammar and focus on more complex grammatical structures. A required prerequisite for the French major. Open to Freshmen

**Requisites:** FRENCH 204 or 227 or consent of department.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FRENCH 240 – IMMIGRATION AND EXPRESSION**

3 credits.

Explores debates associated with the colonial and the postcolonial in France and/or other Francophone countries through literature, film, and culture. Taught in English.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**FRENCH 248 – ETHNIC STUDIES IN THE FRENCH/FRANCOPHONE WORLD(S)**

3 credits.

An introduction to French colonialism in the New World and its effects on African-American, Afro-Creole, Native American, Franco-American, Cajun, and Caribbean diasporan communities in the U.S. through literature, history, and culture. Taught in English.

**Requisites:** Open to Fr

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**FRENCH 271 – INTRODUCTION TO LITERARY ANALYSIS**

3-4 credits.

An introduction to reading and analyzing literary works, with special emphasis on the development of writing skills in French. The program will concentrate on shorter works from the major genres of French literature, and prepare students for future study of literature. Open to Fr

**Requisites:** FRENCH 228 or cons of department.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FRENCH 298 – DIRECTED STUDY**

1-3 credits.

Graded on a Cr/N basis. Requires cons inst

**Requisites:** Jr st.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2006**FRENCH 299 – DIRECTED STUDY**

1-3 credits.

Graded on a lettered basis; requires cons inst

**Requisites:** Jr st.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**FRENCH 301 – PRACTICAL FRENCH CONVERSATION**

1 credit.

Open during the fall semester to residents of the French House and non-resident students. Non-residents attend four or five lunches per week at the French House. For more information, consult the department.

**Requisites:** FRENCH 203**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**FRENCH 302 – PRACTICAL FRENCH CONVERSATION**

1 credit.

Open during the spring semester to residents of the French House and non-resident students. Non-residents attend four or five lunches per week at the French House. For more information, consult the department.

**Requisites:** FRENCH 203**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**FRENCH 311 – ADVANCED COMPOSITION AND CONVERSATION**

3 credits.

Trains students to write essays on a variety of topics, using different registers of French, and work to correct pronunciation and improve conversation skills.

**Requisites:** FRENCH 228**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**FRENCH 312 – ADVANCED ORAL AND WRITTEN EXPRESSION: WRITING ACROSS THE HUMANITIES**

3 credits.

Develops students' writing and oral expression at an advanced level through writing and discussion of internet journalism, translation, or creative genres.

**Requisites:** FRENCH 228**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**FRENCH/INTL BUS 313 – PROFESSIONAL COMMUNICATION AND CULTURE IN THE FRANCOPHONE WORLD**

3 credits.

Study and analysis of the culture and sociology of professional environments in the French and Francophone worlds, including government, international organizations, NGO's and business. Students develop communication skills through interactive teaching methods in multimedia labs.

**Requisites:** FRENCH 228 or 311 or consent of instructor**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** No**Last Taught:** Fall 2017**FRENCH/INTL BUS 314 – CONTEMPORARY ISSUES IN GOVERNMENT, ORGANIZATIONS, AND ENTERPRISE**

3 credits.

Cultural study of contemporary Francophone Africa, focusing on issues in government, organizations and enterprise. Exploration of cultural and professional relations between Francophone Africa and France, the European Union, and the United States.

**Requisites:** FRENCH 228 or 311 or 313 or cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** No**Last Taught:** Spring 2017**FRENCH/INTL BUS 315 – ADVANCED INTERDISCIPLINARY STUDIES IN PROFESSIONAL COMMUNICATION**

3 credits.

In-depth study, from interdisciplinary perspectives, of key aspects of technical French language for the professions and business, together with an exploration of the history, sociology, and culture of professional environments in the French and Francophone worlds.

**Requisites:** FRENCH 228, 313 or 314 or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012

**FRENCH 321 – INTRODUCTION TO MEDIEVAL, RENAISSANCE, AND EARLY MODERN LITERATURE**

3 credits.

Introduction to important literary works from the medieval era to the French Revolution. Classes conducted in French.

**Requisites:** FRENCH 271**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**FRENCH 322 – INTRODUCTION TO LITERATURE OF MODERNITY**

3 credits.

Introduction to important literary works of modernity (from the French Revolution to the twenty-first century). Classes conducted in French.

**Requisites:** FRENCH 271**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**FRENCH 325 – VISUAL CULTURE IN FRENCH/FRANCOPHONE STUDIES**

3 credits.

Aspects of French culture as manifested in painting, photography, film or other visual media in relation to literature.

**Requisites:** FRENCH 321-322**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**FRENCH 347 – INTRODUCTION TO MEDIEVAL, RENAISSANCE, AND EARLY MODERN CIVILIZATION**

3 credits.

An introduction to the political, social, intellectual, artistic and literary development of French culture, from its origins to the French Revolution (1789).

**Requisites:** FRENCH 321 or 322**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**FRENCH 348 – MODERNITY STUDIES**

3 credits.

An introduction to political, social, intellectual, artistic and literary developments in French and Francophone culture, within the time period from the French Revolution to the current era.

**Requisites:** FRENCH 271**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**FRENCH 350 – APPLIED FRENCH LANGUAGE STUDIES**

1-3 credits.

A course for prospective French teachers or Second Language Acquisition students on a selected applied language topic.

**Requisites:** None**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**FRENCH 365 – TOPICS IN FRENCH/FRANCOPHONE LITERATURE AND CULTURE (IN TRANSLATION)**

3 credits.

Treatment of a broad range of topics in French/Francophone literature and culture, with interdisciplinary perspectives. Taught in English. Does not count toward the French major.

**Requisites:** So st**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**FRENCH 391 – FRENCH FOR READING KNOWLEDGE**

3 credits.

Intensive grammar and reading for graduate students and undergraduates with little or no experience in French. Readings from appropriate texts in the humanities, sciences, social sciences. May not be counted toward LS foreign language requirement. Does not count towards the French major.

**Requisites:** Not open to Fr**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016

**FRENCH 420 – TOPICS IN FRENCH: STUDY ABROAD**

1-6 credits.

A course carried with a UW-Madison Study Abroad Program which has no equivalent on this campus.

**Requisites:** Current reg in a UW-Madison study abroad program

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**FRENCH/ITALIAN/PORTUG/SPANISH 429 – INTRODUCTION TO THE ROMANCE LANGUAGES**

3 credits.

Introduction to structural similarities and differences apparent in major Romance languages (French, Italian, Portuguese, Spanish) and to their historical developments, with reference to basic linguistic features of each language: phonology, morphology, syntax, and lexicon. Does not count towards French major.

**Requisites:** Span 226 or PORTUG 226 or FRENCH 228 or Ital 311, or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**FRENCH 430 – READINGS IN MEDIEVAL AND RENAISSANCE LITERATURE**

3 credits.

Exploration of a thematic selection of texts from the Middle Ages and the Renaissance.

**Requisites:** FRENCH 321 322

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**FRENCH 431 – READINGS IN EARLY MODERN LITERATURE**

3 credits.

Exploration of a thematic selection of texts from the Early Modern period.

**Requisites:** FRENCH 321 322

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**FRENCH 433 – READINGS IN TWENTIETH AND TWENTY-FIRST CENTURY LITERATURE**

3 credits.

Exploration of a thematic selection of texts from the twentieth and twenty-first centuries.

**Requisites:** FRENCH 321 322

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**FRENCH/AFRICAN 440 – AFRICAN/FRANCOPHONE FILM**

3 credits.

Studies the construction of narratives in cinema and literature; teaches to analyze and write about cinema; explores links between cinema and national or regional politics and ideology; examines spectatorship in relation to questions of identity formation.

**Requisites:** FRENCH 271

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**FRENCH 449 – FRANCOPHONE MODERNITY STUDIES**

3 credits.

Topics in modern Francophone culture and literature with special emphasis on colonialism, slavery, diasporas, postcolonialism, and immigration.

**Requisites:** FRENCH 347 or 348

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**FRENCH 451 – MEDIEVAL, RENAISSANCE, AND EARLY MODERN STUDIES**

3 credits.

A thematic historical survey of culture in pre-Revolutionary (pre-1789) France.

**Requisites:** FRENCH 321 or 322

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FRENCH 461 – FRENCH/FRANCOPHONE LITERARY STUDIES ACROSS THE CENTURIES**

3 credits.

A study of how literature has evolved over the course of French history, in relation to a chosen topic.

**Requisites:** FRENCH 321 322 or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**FRENCH 462 – FRENCH/FRANCOPHONE CULTURAL STUDIES ACROSS THE CENTURIES**

3 credits.

A study of how culture has evolved over the course of French history, in relation to a chosen topic.

**Requisites:** FRENCH 321 322 or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**FRENCH 465 – FRENCH/FRANCOPHONE FILM**

3 credits.

Representative French-language films will be studied from an esthetic and a cultural perspective. Choice of themes and periods studied will vary, and may range from historical surveys to a close examination of films from a particular time or place.

**Requisites:** FRENCH 321 or FRENCH 322.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**FRENCH 467 – ASPECTS OF CONTEMPORARY FRENCH LITERATURE**

3 credits.

**Requisites:** None

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**FRENCH 472 – FRENCH/FRANCOPHONE LITERATURE AND WOMEN**

3 credits.

A study of literature by and/or about women, including theories of gender, in French and/or Francophone literary culture.

**Requisites:** FRENCH 321 322

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2014

**FRENCH/CLASSICS/HISTORY/ITALIAN/MEDIEVAL 550 – ADVANCED INTERDISCIPLINARY STUDIES IN MEDIEVAL CIVILIZATION**

3 credits.

An integrated treatment of a specific theme, to be announced by a group of specialists in different fields.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2012

**FRENCH 555 – COLLOQUIUM: RESEARCH POSSIBILITIES IN FRENCH STUDIES**

1 credit.

Introductions to the kinds of research conducted in French language and French and Francophone literature and culture by faculty, academic staff, and advanced graduate students. Presenters will describe their research interests and their professional careers.

**Requisites:** Open to first-year Grad stdts Jr Sr French majors

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**FRENCH 567 – UNDERGRADUATE SEMINAR IN FRENCH/FRANCOPHONE LITERARY STUDIES**

3 credits.

Particular emphasis on discussion, research, and collective preparation of readings, on a topic within French and/or Francophone literary studies.

**Requisites:** One 400-level course in French lit

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2011



**FRENCH 568 – UNDERGRADUATE SEMINAR IN FRENCH/  
FRANCOPHONE CULTURAL STUDIES**

3 credits.

Particular emphasis on discussion, research, and collective preparation of readings, on a topic within French and/or Francophone cultural studies.

**Requisites:** One 400-level course in French lit

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

**FRENCH 590 – ADVANCED PHONETICS**

3 credits.

Advanced study of French sounds, phonetic transcription, practice in pronunciation; required of teaching majors.

**Requisites:** FRENCH 228

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**FRENCH 595 – THEORY AND PRACTICE OF FRENCH/FRANCOPHONE  
DRAMA**

4 credits.

Pertinent theory, interpretation of French and/or Francophone drama, practice of dramatic elocution, and performance.

**Requisites:** FRENCH 321-322 or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

**FRENCH 615 – GRAMMAIRE AVANCEE**

3 credits.

Advanced course in French grammar and style, with a special focus on various critical and professional applications. For students in the Professional French Masters Program.

**Requisites:** Cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**FRENCH 616 – SOCIAL RESPONSIBILITY IN CONTEMPORARY FRENCH-  
LANGUAGE PROFESSIONAL WRITING**

3 credits.

Required for Professional French Masters Program students, this interdisciplinary course investigates discourses of social responsibility in the French-speaking professional world and across sectors, in the fields of international development, marketing, management, and administration. By studying how concepts of socially responsible practice are represented in business and professional writing in France, Quebec and Francophone Africa, students will consider how trends in their individual PFMP concentration areas relate to those of their classmates and future colleagues.

**Requisites:** Declared in French Studies masters program or the capstone certificate in French Studies

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FRENCH 617 – CONTEMPORARY SKILL SET LITERATURE IN FRENCH**

3 credits.

This course examines how contemporary business and professional writing in French portrays professional skill sets for readers in Francophone Europe and North America, and to a lesser extent in Francophone Africa, particularly in the fields of international education, international development, marketing, management, and administration.

**Requisites:** Declared in French Studies masters program or the capstone certificate in French Studies

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**FRENCH 618 – CAREER STRATEGIES FOR THE FRENCH-SPEAKING  
WORLD**

2 credits.

Students will study published contemporary French-language writing on career strategies for emerging professionals and professionals in transition in Europe, Africa and North America.

**Requisites:** Declared in French Studies masters program or the capstone certificate in French Studies

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**FRENCH 623 – COMMUNICATION ORALE EN SITUATIONS PROFESSIONNELLES**

3 credits.

Professional communication for advanced speakers of French, with a particular focus on intercultural analysis, nonverbal communication, and public speaking. Required for students in the Professional French Masters Program.

**Requisites:** Cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**FRENCH 626 – CRITICAL APPROACHES TO FRENCH LITERATURE**

3 credits.

Introduction to critical reading practices and theoretical principles behind them; textual analyses from various genres and periods.

**Requisites:** Grad st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**FRENCH 630 – LE SIECLE DES LUMIERES**

3 credits.

**Requisites:** Grad st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**FRENCH 631 – LITTERATURE FRANCAISE DU XVIIIIE SIECLE**

3 credits.

Literary and philosophical trends of the Age of Enlightenment with special emphasis on Montesquieu, Voltaire, Diderot, and Rousseau.

**Requisites:** Grad st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2012**FRENCH 633 – LE ROMAN AU XVIIIIE SIECLE**

3 credits.

**Requisites:** Grad st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**FRENCH 636 – LE ROMAN FRANCAIS 1850-1900**

3 credits.

Etude des romans de Fromentin, Flaubert, Zola, Maupassant, et Huysmans.

**Requisites:** Grad st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**FRENCH 637 – LA LITTÉRATEURE FRANÇAISE DU XIXE SIÈCLE**

3 credits.

Study of nineteenth-century literary texts in relation to their historical or cultural contexts or in light of new theoretical approaches.

**Requisites:** Graduate standing or consent of instructor**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**FRENCH 639 – LA LITTERATURE DU XVIIIIE SIECLE**

3 credits.

Etude approfondie des grandes oeuvres du XVIIe siecle.

**Requisites:** Grad st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**FRENCH 640 – LA LITTERATURE DU XVIIIÈME SIECLE**

3 credits.

Continuation of 639

**Requisites:** Grad st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**FRENCH 642 – CULTURE ET SOCIÉTÉS DANS LE MONDE FRANCOPHONE**

3 credits.

Graduate survey of major socio-political, cultural, and economic developments in the major French-speaking regions of the world. Taught in three modules (Europe, Africa, and Canada), the course is required for students in the Professional French Masters Program.

**Requisites:** Cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**FRENCH 645 – LA LITTERATURE FRANCAISE DU XVIIÈME SIECLE**

3 credits.

**Requisites:** Grad st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**FRENCH 646 – LA LITTERATURE FRANCAISE DU XVIIIÈME SIECLE**

3 credits.

Continuation of 645

**Requisites:** Grad st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**FRENCH 647 – LE ROMAN FRANCAIS AU XXIÈME SIECLE**

3 credits.

**Requisites:** Grad st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**FRENCH 653 – CINÉMA FRANÇAIS/FRANCOPHONE**

3 credits.

The study of French and/or Francophone films in relation to their historical or cultural contexts through close readings and canonical theoretical approaches.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**FRENCH 657 – LA POESIE FRANCAISE DU XIXÈME SIECLE**

3 credits.

**Requisites:** Grad st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2011**FRENCH 665 – INTRODUCTION AUX ETUDES FRANCOPHONES**

3 credits.

Study of literary texts from diverse Francophone cultures (Africa, the Caribbean, Quebec) and the cultural and political dynamics between these texts and these cultures.

**Requisites:** Grad st**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**FRENCH 671 – LA CRITIQUE LITTERAIRE**

3 credits.

Continuation of 670

**Requisites:** Grad st or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2011

**FRENCH 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**FRENCH 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**FRENCH 691 – THESIS**

2 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 1999

**FRENCH 692 – THESIS**

2 credits.

**Requisites:** Consent of instructor

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 1997

**FRENCH 698 – DIRECTED STUDY**

1-6 credits.

Cr/N. Graded on a Cr/N basis; requires cons inst

**Requisites:** Jr or Sr st.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2008

**FRENCH 699 – DIRECTED STUDY**

1-6 credits.

Graded on a lettered basis; requires cons inst

**Requisites:** Jr or Sr st.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**FRENCH/MEDIEVAL 701 – INTRODUCTION A L ANCIEN FRANCAIS**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**FRENCH/MEDIEVAL 703 – LA LITTERATURE FRANCAISE DU XIV ET DU XV SIECLE**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**FRENCH/MEDIEVAL 704 – LA LITTERATURE FRANCAISE DU XIV ET DU XV SIECLE**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**FRENCH/MEDIEVAL 705 – LA LITTERATURE FRANCAISE DES DEBUTS JUSQU A LA FIN DU XIII SIECLE**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**FRENCH 793 – PROFESSIONAL FRENCH MASTERS PROGRAM INTERNSHIP**

2-3 credits.

Professional internship abroad, in a French-speaking business or organization, in the student's professional field. Limited to students in the Professional French Masters Program and Capstone Certificate of Professional French Studies.

**Requisites:** Limited to Grad St in Professional French Masters Program and Capstone Certificate of Professional French Studies

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**FRENCH 799 – INDEPENDENT STUDY**

1-6 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**FRENCH/GERMAN/HISTORY/POLI SCI/SOC 804 – INTERDISCIPLINARY WESTERN EUROPEAN AREA STUDIES SEMINAR**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**FRENCH/ITALIAN/PORTUG/SPANISH 817 – ROMANCE PHILOLOGY**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**FRENCH 820 – COLLEGE TEACHING OF FRENCH**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**FRENCH/ITALIAN 821 – ISSUES IN METHODS OF TEACHING FRENCH AND ITALIAN**

1-3 credits.

**Requisites:** French/Italian 820; or foreign lang teaching experience**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**FRENCH 825 – COURS DE GRAMMAIRE ET DE STYLE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**FRENCH 826 – COURS DE GRAMMAIRE ET DE STYLE**

3 credits.

Continuation of 825.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**FRENCH 901 – SEMINAR-MATERIALS AND METHODS OF RESEARCH**

1-3 credits.

Required for Ph.D. candidates.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**FRENCH 931 – SEMINAR-18TH CENTURY**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**FRENCH 932 – SEMINAR-18TH CENTURY**

3 credits.

Continuation of 931

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**FRENCH 935 – SEMINAR ON THE 19TH CENTURY NOVEL**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2010**FRENCH/MEDIEVAL 939 – LA LITTERATURE MEDIEVALE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014**FRENCH 947 – SEMINAR: QUESTIONS DE LITTERATURE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**FRENCH 948 – SEMINAR: QUESTIONS DE LITTERATURE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016

**FRENCH 949 – SEMINAR-ECRIVAINS FRANCAIS DU XVIIIE SIECLE**  
3 credits.

**Requisites:** Graduate or professional standing  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2013

**FRENCH 951 – SEMINAR ON 19TH CENTURY FRENCH POETRY**  
3 credits.

**Requisites:** Graduate or professional standing  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2009

**FRENCH 955 – SEMINAR-LE THEATRE DU XX SIECLE**  
3 credits.

**Requisites:** Graduate or professional standing  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2011

**FRENCH 963 – SEMINAR-STUDIES IN THE ROMANTIC PERIOD**  
3 credits.

**Requisites:** Graduate or professional standing  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Spring 2012

**FRENCH 990 – INDIVIDUAL RESEARCH**  
1-12 credits.

In connection with the doctoral dissertation. Staff, on consultation with the chairperson.  
**Requisites:** Consent of instructor  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Fall 2017

## GENDER AND WOMENS STUDIES (GEN&WS)

**GEN&WS 100 – OPEN HOUSE GENDER LEARNING COMMUNITY SEMINAR**  
1 credit.

This seminar is for residents of Open House Gender Learning Community. It addresses various topics of interest to this community.  
**Requisites:** Resident of Open House Gender Learning Community  
**Course Designation:** Level - Elementary  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Fall 2017

**GEN&WS 101 – GENDER, WOMEN, AND CULTURAL REPRESENTATION**  
3 credits.

A humanities-oriented analysis of cultural representations of women and men within the social and historical contexts of race, class, gender and sexuality; engages with a range of traditions and modes of representation including literature, mass media and popular culture.  
**Requisites:** Open to Fr; students may not receive credit for both Gen WS 102 and Gen WS 101  
**Course Designation:** Breadth - Humanities  
Level - Elementary  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
**Repeatable for Credit:** No  
**Last Taught:** Spring 2017

**GEN&WS 102 – GENDER, WOMEN, AND SOCIETY IN GLOBAL PERSPECTIVE**  
3 credits.

Global, interdisciplinary, social science-oriented analysis of gender, race, class and sexuality in relationship to social institutions and movements for social change. Focus on gender and women in institutions such as education, the economy, the family, law, media, medicine, and politics.  
**Requisites:** Open to Fr; students may not receive credit for both Gen WS 102 and Gen WS 101  
**Course Designation:** Breadth - Social Science  
Level - Elementary  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2017

**GEN&WS 103 – WOMEN AND THEIR BODIES IN HEALTH AND DISEASE**  
3 credits.

Information on physiological processes and phenomena relating to health (for example, menstruation, pregnancy) and ill health (for example, cancer, maternal mortality, depression). Attention to how bodies are located in social contexts that influence health and illness. Explorations of how multiple kinds of social inequalities shape health and health disparities. Information on roles that female-assigned and women-identified people play as health-care consumers, activists, and practitioners.  
**Requisites:** None  
**Course Designation:** Breadth - Natural Science  
Level - Elementary  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2017

**GEN&WS 110 – FIRST YEAR TOPICS SEMINAR IN GENDER, WOMEN AND THE HUMANITIES**  
3 credits.

An umbrella course used to offer a variety of special topics seminars for first year undergraduates. Courses using this number employ a humanities approach. The topic is footnoted whenever the course is offered.  
**Requisites:** None  
**Course Designation:** Breadth - Humanities  
Level - Elementary  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
**Repeatable for Credit:** No



**GEN&WS 120 – FIRST YEAR TOPICS SEMINAR IN GENDER, WOMEN AND SOCIETY**

3 credits.

An umbrella course used to offer a variety of special topics seminars for first year undergraduates. Courses using this number employ a social science approach. The topic is footnoted whenever the course is offered.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**GEN&WS/HISTORY 134 – WOMEN AND GENDER IN WORLD HISTORY**

3-4 credits.

A global (comparative and transnational) survey of women and gender from the ancient world to the modern period. Introduces students to key issues in the history of women and gender, including the historical construction of identities, roles, symbols, and power relationships.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN&WS/ENGL 144 – WOMEN'S WRITING**

3 credits.

An introduction to literature in English written by women in various periods and places; specific topics will vary.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**GEN&WS/SOC 200 – INTRODUCTION TO LESBIAN, GAY, BISEXUAL, TRANSGENDER AND QUEER+ STUDIES**

3-4 credits.

A multidisciplinary introduction to lesbian, gay, bisexual, transgender, and queer (LGBTQ) studies, including theories of identity formation, different societal interaction with LGBTQ communities, LGBTQ cultures in history, and contemporary legal and political issues. Course materials explore the intersections between LGBTQ identities and other socially marginalized identities, including (but not limited to) those based on race, ethnicity, religion and disability.

**Requisites:** None**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN&WS/LITTRANS 205 – WOMEN IN RUSSIAN LITERATURE IN TRANSLATION**

3-4 credits.

**Requisites:** So st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEN&WS/C&E SOC/SOC 215 – GENDER AND WORK IN RURAL AMERICA**

3 credits.

Sociological dimensions of men's and women's work in nonmetropolitan areas of the United States. Examines gender divisions of "work" in its fullest sense: paid work in formal and informal economies, self-employment, and nonmarket work such as housework.

**Requisites:** Open to Fr**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2014**GEN&WS/AFROAMER 221 – INTRODUCTION TO BLACK WOMEN'S STUDIES**

3 credits.

This course will provide students with an overview of the field of Black women's studies.

**Requisites:** Open to Fr**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN&WS/AFROAMER 222 – INTRODUCTION TO BLACK WOMEN WRITERS**

3 credits.

An introduction to the writings of Afro-American women from the nineteenth to the twentieth century. Fiction, autobiography, non-fiction prose, and poetry will be read and discussed.

**Requisites:** Open to Fr**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016

**GEN&WS/CHICLA/HISTORY 245 – CHICANA AND LATINA HISTORY**

3 credits.

Introduces the cultural, economic, social, and political history of Chicanas and Latinas in the U.S. and focuses on four major themes: contact between different ethnic/racial groups; ideas of nation and nationalism; constructions of identity; and struggles for social justice.

**Requisites:** Open to Fr

**Course Designation:** Gen Ed - Communication Part B  
Ethnic St - Counts toward Ethnic Studies requirement  
Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**GEN&WS/ENGL 248 – WOMEN IN ETHNIC AMERICAN LITERATURE**

3 credits.

An introduction to American literature by and about women, written by authors from ethnic groups.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEN&WS/ENGL 250 – WOMEN IN LITERATURE**

3 credits.

Works by British and American writers, with emphasis on women writers of the twentieth century; close reading of texts and discussion of trends, themes, and special characteristics of the role of women in literature.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEN&WS/AFROAMER 267 – ARTISTIC/CULTURAL IMAGES OF BLACK WOMEN**

3 credits.

Cultural images by and about Black women; feminine creativity in the arts within their historical, cultural, social, and political contexts.

**Requisites:** Open to first year students

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2014**GEN&WS/LITTRANS 270 – GERMAN WOMEN WRITERS IN TRANSLATION**

3 credits.

**Requisites:** Open to Fr; not open to stdts who are taking or have taken German 302 or above

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN&WS 280 – HONORS SEMINAR: STUDIES IN GENDER, SEX, AND SEXUALITY**

3 credits.

An intensive exploration in the topics and issues central to Gender and Women's Studies. Emphasis will be placed on critical thinking about gender through close readings of texts, classroom discussions, and informal and formal writing. Open to non-honors students only with consent of instructor

**Requisites:** Open to freshmen.**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**GEN&WS 299 – DIRECTED STUDY**

1-3 credits.

For highly qualified and motivated students.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**GEN&WS/RELIG ST 305 – WOMEN, GENDER AND RELIGION**

3 credits.

Explores themes significant to the impact of religion on women and women on religion, historically and today, across a diverse range of contexts.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No

**GEN&WS 310 – SPECIAL TOPICS IN GENDER, WOMEN AND THE HUMANITIES**

1-3 credits.

Investigation of some specific topic in gender and women's studies related to gender, women and the humanities. Subject differs each semester.

**Requisites:** Women St 101 or 102 a crse in a related discipline; or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**GEN&WS/HISTORY 315 – GENDER, RACE AND COLONIALISM**

3 credits.

Investigates how gender and race were socially constructed in cultural encounters between Europeans and "other" peoples in Africa, Asia, and the Americas.

**Requisites:** Students must have taken Gender and Women's Studies 101 or Gender and Women's Studies 102

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**GEN&WS 319 – STUDY ABROAD SPECIAL TOPIC: GENDER, WOMEN AND THE HUMANITIES**

3-4 credits.

Provides a gender and women's studies course equivalency for humanities courses taken in UW-Madison study abroad programs that do not equate exactly to an existing gender and women's studies course.

**Requisites:** Enrollment in a UW-Madison study abroad program

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**GEN&WS 320 – SPECIAL TOPICS IN GENDER, WOMEN AND SOCIETY**

1-3 credits.

Investigation of some specific topic in gender and women's studies related to gender, women and society. Subject differs each semester.

**Requisites:** Women St 101 or 102 a crse in a related discipline; or cons inst

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**GEN&WS/AFROAMER 323 – GENDER, RACE AND CLASS: WOMEN IN U.S. HISTORY**

3 credits.

Historical interplay of racism and sexism in the lives of Black and White women of different class backgrounds in the United States.

**Requisites:** Sophomore standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**GEN&WS/AFROAMER 324 – BLACK WOMEN IN AMERICA: RECONSTRUCTION TO THE PRESENT**

3 credits.

Explores African American women's experience from waning days of slavery to present. Topics include slavery, emancipation, reconstruction, segregation, migration, urban and rural poverty, civil rights, nationalism, feminism and sexual politics.

**Requisites:** So st

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEN&WS/AFROAMER 326 – RACE AND GENDER IN POST-WORLD WAR II U.S. SOCIETY**

3 credits.

Assesses how race and gender (as well as socio-economic status, age, sexuality, region, etc.) shaped the experiences and options of African Americans, especially women, in U.S. society from WW II to the present.

**Requisites:** So st

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEN&WS 329 – STUDY ABROAD SPECIAL TOPIC: GENDER, WOMEN IN SOCIETY**

3-4 credits.

Provides a gender and women's studies course equivalency for social science courses taken in UW-Madison study abroad programs that do not equate exactly to an existing gender and women's studies course.

**Requisites:** Enrollment in a UW-Madison study abroad program

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**GEN&WS 330 – TOPICS IN GENDER/CLASS/RACE/ETHNICITY (HUMANITIES)**

3 credits.

Topics in the feminist study of inequality and difference based on class, gender and race/ethnicity, with a humanities emphasis.

**Requisites:** Women St 101 or 102

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2014

**GEN&WS 331 – TOPICS IN GENDER/CLASS/RACE/ETHNICITY (SOCIAL SCIENCES)**

3 credits.

Topics in the feminist study of inequality and difference based on class, gender and race/ethnicity, with a social science emphasis.

**Requisites:** Women St 101 or 102

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

**GEN&WS/CHICLA 332 – LATINAS: SELF IDENTITY AND SOCIAL CHANGE**

3 credits.

Explores the multiracial and multicultural reality of Latina societies by becoming familiar with the history and cultures of Chicana, Cuban-American, and Puerto Rican women. Interdisciplinary readings in law, journalism, public policy, history, and self-reflective literature.

**Requisites:** So st

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**GEN&WS/AFROAMER 333 – BLACK FEMINISMS**

3 credits.

Uses an interdisciplinary framework to examine the key assumptions, debates, and silences in contemporary black feminist thought.

**Requisites:** Sophomore standing, a GenWS course, an AfroAmer course or consent of instructor

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEN&WS 340 – TOPICS IN LGBTQ SEXUALITY**

3 credits.

Topics in feminist study of LGBTQ sexualities, considering race, nationality, and time. Open to Fr

**Requisites:** Women St 101 or 102 crse in a related discipline, or Women St 200, or cons inst.

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**GEN&WS 342 – TRANSGENDER STUDIES**

3-4 credits.

Transgender Studies teaches students fluency with basic terms, concepts, and methodologies within the interdisciplinary field of Transgender Studies. Content includes transnational and cultural considerations; contemporary transgender issues in medicine, law, and education; cultural production, art and activism; transgender, feminist, and queer theories.

**Requisites:** None

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**GEN&WS 343 – QUEER BODIES**

3 credits.

This course centralizes the intersection of LGBTQ identities and dis/ability through various queer bodies which are also inflected by race, class, geographical and national locations. Approaches may include critical theory about queer bodies and personal narratives. Students will learn a variety of ways to think critically and creatively about the politics of bodily experience, including how those politics have shaped their own embodied lives.

**Requisites:** 3 credits of Gender Women's Studies; sophomore standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEN&WS/HISTORY 346 – TRANS/GENDER IN HISTORICAL PERSPECTIVE**

3-4 credits.

Throughout recorded history, humans have conceptualized categories of sex and gender in a variety of ways; some have elaborated just two main sex/genders, others have elaborated more than two categories. At the same time, regardless of how a given culture has defined sex and gender and the behaviors and appearances deemed appropriate, humans have always exceeded those definitions. Quite simply, the determination of male and female and any other sex or gender category is neither obvious nor simple: what is sex, what is gender? Do they reside in the body, behavior, psyche, clothing, or social processes such as racialization? To make matters still more complicated, cultural beliefs about sex/gender have changed across time. How have contacts across cultures through migration and colonization affected people's understanding of sex/gender possibilities and norms? This course focuses on sex/gender crossing and variation in historical contexts including Japan, South Africa, Europe, the African diaspora, and North America. We will consider perspectives of people who themselves passed, crossed, transitioned, transed, or otherwise exceeded their culture's definitions of normative sex/gender. Alongside, we will consider the ways that dominant social institutions reinforced norms, recognized, tolerated, punished and/or celebrated gender variation. We will examine popular culture, medical and legal perspectives, memoir, queer and trans theory, and social movement treatises.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**GEN&WS/CLASSICS 351 – GENDER AND SEXUALITY IN THE CLASSICAL WORLD**

3-4 credits.

Constructions of gender and sexuality in the classical world through art, literature and archaeology.

**Requisites:** Sophomore standing or consent of instructor**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEN&WS/HISTORY 353 – WOMEN AND GENDER IN THE U.S. TO 1870**

3-4 credits.

An advanced and comparative study of the roles of gender, class, and race in American history and historiography. Themes include women as agents of social change and as builders of community.

**Requisites:** So st; completion of intro history women's studies crse preferred**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**GEN&WS/HISTORY 354 – WOMEN AND GENDER IN THE U.S. SINCE 1870**

3-4 credits.

See 520.

**Requisites:** So st; completion of intro history women's studies crse preferred**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2017**GEN&WS 360 – ONLINE INTERNSHIP IN GENDER AND WOMEN'S STUDIES**

1 credit.

This online internship course is designed to provide students with opportunities for learning in ways that connects coursework in gender and women's studies to specific issues in professional community settings within the context of feminist activism.

**Requisites:** A previous course in gender and women's studies**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**GEN&WS/CLASSICS 361 – SEX AND POWER IN GREECE AND ROME**

3 credits.

Sex as a source of domination and liberation in Ancient Greek and Roman literature and modern European and North American theory and practice, including questions of sexual orientation, gender identity, violence, and self-realization.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN&WS/AFROAMER 367 – ART AND VISUAL CULTURE: WOMEN OF THE AFRICAN DIASPORA AND AFRICA**

3 credits.

This course focuses on the art and visual culture by/or pertaining to women throughout the African Diaspora and Africa. Though the focus is on 10th century art by black women, it will go into visual culture (art objects, photographs, images, dress, culturally-coded representation) concerning black women historically.

**Requisites:** Afro-Amer 242; majors only; So st or cons inst**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016



**GEN&WS 370 – TOPICS IN GENDER AND DISABILITY**

3 credits.

Examines the social, cultural, political, and symbolic constructions of the intersecting categories of gender and disability.

**Requisites:** 3 credits of GENWS coursework

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**GEN&WS 371 – DISABILITY AND GENDER IN FILM**

3 credits.

Interdisciplinary analysis of the films about disability, stigmatized bodies, and their gendered constructions using feminist and disability studies methods.

**Requisites:** None

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**GEN&WS 372 – VISUALIZING BODIES**

3 credits.

Focuses on the intersections of the visual images of bodies, ethics, and politics from global and feminist perspectives. Students will learn critical approaches to visual media in feminist disability studies to analyze the images of bodies focusing on race, gender, disability, religion, sexuality, and other markers of difference.

**Requisites:** 3 credit hours in GenWS or consent of instructor

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**GEN&WS 373 – GENDER & THE CULTURAL POLITICS OF ILLNESS**

3 credits.

Considers how illnesses exist not only as biomedical conditions but also as occasions for political activism, artistic creation, social change, and community formation. We will explore these issues in relationship to notable modern illnesses including HIV/AIDS, breast cancer, depression, multiple chemical sensitivities, and chronic fatigue syndrome. We will examine how illness intersects with embodied social identities such as gender, race, sexuality, dis/ability, ethnicity, class, and citizenship status. Course materials will include autobiographical and fictional writings, documentary and feature films, cultural and social theories, visual art, graphic novels, and digital media.

**Requisites:** Sophomore standing and 3 credits in GENWS

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**GEN&WS/HISTORY 392 – WOMEN IN HISTORY**

3-4 credits.

An examination of the cultural, social, economic, and political activities of women. Geographical or chronological emphasis varies with instructor.

**Requisites:** So st

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**GEN&WS 414 – GENDER, PERFORMANCE, AND SEXUALITY**

3 credits.

Explores the ways in which we perform sexuality and gender. Covers issues related to performance theory, social constructionism, gender socialization, and philosophy, while exploring how gender and sexuality are constructed, enacted, and communicated in various contexts.

**Requisites:** GenWS 101, GenWS 102 or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**GEN&WS/THEATRE 415 – INTRODUCTION TO CONTEMPORARY FEMINIST THEATRE AND CRITICISM**

3 credits.

Introduction to the history, literature and theory of feminist theatre and of feminist criticism of mainstream theatre in the United States from 1960 to the present.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**GEN&WS/COM ARTS 418 – GENDER, SEXUALITY, AND THE MEDIA**

3 credits.

This course examines images of gender and sexuality in the media, with a focus on contemporary media in the U.S. Using theories from cultural studies, film and media studies, gender studies, and communication we will explore different processes and practices of gender and sexuality. We will look at the way that gender and sexuality are constructed through social, cultural, and economic forces, and the way that these identities intersect with other social identities such as race, ethnicity, and class. Through readings and class discussions we will consider the way that media impact our understanding of feminism and post-feminism, violence, celebrity, consumer culture, subcultures and activism.

**Requisites:** Must have junior standing or have taken one of the following courses: Gender Women's Studies 101, 102, or 103, or Gender Women's Studies/Sociology 200, or Communication Arts 250.

**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**GEN&WS/ENGL 419 – GENDER AND LANGUAGE**

3 credits.

Examines taken-for-granted understandings of language and gender. Students produce analytic assignments and research projects, drawing on interdisciplinary theories and methods to address the representation and enactment of gender in talk, writing, and/or literary works. Students who have taken English 341 prior to fall 2014 may not enroll in this course.

**Requisites:** Junior standing

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**GEN&WS 420 – WOMEN IN CROSS-SOCIETAL PERSPECTIVE**

3 credits.

An interdisciplinary examination of the position of women in a variety of social contexts; an analysis of the society-specific and universal social forces that determine the position of women; an investigation of the change in women's status and role worldwide and an inquiry into the causes of this change.

**Requisites:** Woman-related course; a soc sci course; or cons inst

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEN&WS/LEGAL ST 422 – WOMEN AND THE LAW**

3 credits.

Legal system, laws, and proposed legislation that have specific impact on the lives of women. Topics investigated in both the social and legal contexts.

**Requisites:** A woman-related course and a soc sci course; or cons inst

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**GEN&WS 424 – WOMEN'S INTERNATIONAL HUMAN RIGHTS**

3 credits.

An examination of the contemporary development of international human rights and women's rights, and the fundamental contradiction between them. Analyzes core themes and issues of women's international human rights.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**GEN&WS/CHICLA 425 – CHICANA AND LATINA FEMINISMS, ARTS, AND MEDIA**

3 credits.

An introduction to Chicana and Latina history and feminist activism, writing, and creative expression. Surveys Chicana/Latina participation and representation in society, the arts, the media, and popular culture.

**Requisites:** Chic/Std 101 or women's studies intro crse or Jr st

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**GEN&WS 426 – WOMEN AND GRASSROOTS POLITICS ACROSS THE GLOBE**

3 credits.

An introduction to the range of women's and feminist grassroots activism across the globe. Focuses on the complexities of individual and community service, learning and scholarship, and women's roles in facilitating social change.

**Requisites:** GenWS 101, GenWS 102, or cons inst

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**GEN&WS 427 – GLOBAL FEMINISMS**

3 credits.

Explores feminism and gender across cultural contexts with emphasis on the Global South. Includes theories for the study of women and gender in foreign contexts, comparison of gender relations and feminisms across countries, and analysis of national and transnational feminist organizing.

**Requisites:** A Gender and Women's Studies course or consent of instructor

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**GEN&WS/FOLKLORE 428 – GENDER AND EXPRESSIVE CULTURE**

3 credits.

Examines the relationship between dominant images of women and men and their self-images, as they emerge in expressive culture in various societies.

**Requisites:** Junior standing

**Course Designation:** Breadth - Either Humanities or Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 1992

**GEN&WS/POLI SCI 429 – GENDER AND POLITICS IN COMPARATIVE PERSPECTIVE**

3-4 credits.

Examines the gendered nature of political institutions around the world, including implications of women's exclusions from public life in a global context; the obstacles to women's greater participation; how women have gained greater voice in political leadership in some countries; and the differences women make in the political arena. Not open to students with credit for POLI SCI 643 prior to fall 2017

**Requisites:** Sophomore standing; not open to special students.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**GEN&WS/HIST SCI/MED HIST 431 – CHILDBIRTH IN THE UNITED STATES**

3 credits.

American women's childbirth experiences from the colonial period to the present. Childbirth as a cultural as well as a biological event. Basic physiological information for understanding and evaluating changing approaches to pregnancy and childbirth.

**Requisites:** Women St 103 or 430 or equiv; or cons inst

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEN&WS/AMER IND/ANTHRO/FOLKLORE 437 – AMERICAN INDIAN WOMEN**

3 credits.

Examines and interprets the roles of American Indian women in traditional societies, and in contemporary North America.

**Requisites:** 1 crse in Amer Ind St, ANTHRO/AMER IND 314 or Women St 223, 101, or 102

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**GEN&WS 441 – CONTEMPORARY FEMINIST THEORIES**

3 credits.

Contemporary theoretical positions and debates about feminisms in the humanities and social sciences.

**Requisites:** 3 credits of GENWS and sophomore standing.

**Course Designation:** Breadth - Either Humanities or Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEN&WS 442 – LESBIAN CULTURE**

3 credits.

Exploration of lesbian culture and history. Focuses on the history, meanings, and representations of relationships among women; critically analyzes the concepts of lesbian perspective, theory, aesthetic, and sensibility.

**Requisites:** So st Women St 101 or 102

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**GEN&WS/ANTHRO 443 – ANTHROPOLOGY BY WOMEN**

3 credits.

Contributions of women anthropologists to feminist and anthropological theories and research methods. Field research and gender. Current debates in women's studies and anthropology in light of recent research on women and gender in cross-cultural perspective.

**Requisites:** So st; one women st crse or one anthro crse or cons inst

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**GEN&WS 445 – THE BODY IN THEORY**

3 credits.

Explores a broad range of contemporary theories concerned with bodies and power. Intersections with gender, race, class, dis / ability, sexuality and nation.

**Requisites:** Jr st and 3 cr of intmed or adv Gen WS or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**GEN&WS 449 – SPECIAL TOPICS IN FEMINISM AND SOCIAL AND CULTURAL THEORY**

3 credits.

Investigation of specific theorists, themes, problems, or eras in feminism and social theory. Subject differs each semester.

**Requisites:** So st and 3 cr of women st; or cons inst**Course Designation:** Breadth - Either Humanities or Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN&WS/PORTUG 450 – BRAZILLIAN WOMEN WRITERS**

3 credits.

A survey of representative writing by contemporary Brazillian women writers in relation to representations of nationality, race, class, ethnicity, gender and sexualities.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**GEN&WS/PORTUG 460 – CARMEN MIRANDA**

3 credits.

This course examines the work, representation and interpretation of Carmen Miranda from her early days as a radio star in Brazil to a film actress and entertainer in Hollywood in the 1940s and 50s.

**Requisites:** Jr st or cons inst**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEN&WS/ASIAN AM/ENGL 463 – RACE AND SEXUALITY IN AMERICAN LITERATURE**

3 credits.

Explores the intersection between race and sexuality in American literature with an emphasis on sex/gender difference, feminism, transgenderism, and nationalism. Focuses on the nature of literature as advocacy, with an emphasis on Asian-American issues. Students who have taken English 654 prior to fall 2014 may not enroll in this course.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**GEN&WS/ASIAN AM/ENGL 464 – ASIAN AMERICAN WOMEN WRITERS**

3 credits.

A study of major texts by Asian American women writers.

**Requisites:** 6 credits of introductory literature or consent of instructor**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**GEN&WS/FOLKLORE 467 – WOMEN AND POLITICS IN POPULAR CULTURE AND FOLKLORE**

3 credits.

How popular culture and folklore have been used by women as rhetorical tools that promote deliberation and debate, broaden political engagement, and advance particular social identities. Global content, with examples from around the world.

**Requisites:** A Gender and Women's Studies course, or a Folklore course or Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**GEN&WS/FOLKLORE 468 – FEMINISM, FOLKLORE AND COMPARATIVE LITERATURE**

3 credits.

Explores feminism, folklore and comparative literature from a variety of perspectives drawing from scholarship in feminist philosophy, folklore, anthropology, critical cultural studies, and postcolonial theory.

**Requisites:** 3 credits of GenWS, or 3 Credits of Folklore, or consent of instructor**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015

**GEN&WS/POLI SCI 469 – WOMEN AND POLITICS**

3-4 credits.

Changing political roles, status, attitudes, and behaviors of women in contemporary society and of the political implications of changing female/male relationships.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN&WS/HISTORY/LCA 472 – WOMEN IN TURKISH SOCIETY**

3 credits.

Interdisciplinary analysis of women's issues in Turkish society from the Ottoman era imperial harem to Islamist feminist movements in the secular Republic of Turkey today. Emphasis on the critical use of a comprehensive set of disciplinary lenses.

**Requisites:** So st or cons inst**Course Designation:** Breadth - Either Humanities or Social Science  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2010**GEN&WS/SOC 477 – FEMINISM AND SOCIOLOGICAL THEORY**

3 credits.

This course reviews the ways that feminist critiques have reshaped social theory since 1960. It examines the ways that feminist theorists have reconceptualized classical sociological problems and how this has influenced the ways research is conducted.

**Requisites:** SOC/C&E SOC 475 or any Gender Women's Studies course carrying "S" or "Z" or "Y" breadth category.**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2014**GEN&WS/HISTORY 519 – SEXUALITY, MODERNITY AND SOCIAL CHANGE**

3 credits.

A history of sexuality approach to a period of major social, economic, and political change in US history, 1880-1930; medical, legal, and popular discourses shaping urbanization, reform, nationalism and colonialism.

**Requisites:** Jr st cons inst**Course Designation:** Breadth - Either Humanities or Social Science  
Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN&WS/PSYCH 522 – PSYCHOLOGY OF WOMEN AND GENDER**

3 credits.

Examination of theories and research on the psychology of women and gender. Explores topics such as sex bias in psychological research; psychological aspects of female sexuality and reproduction; gender-based violence; female achievement and power; lifestyle choices of women; women and mental health; and psychological research with transgender individuals.

**Requisites:** Sophomore standing and a course in PSYCH and GEN&WS 102 or 103**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN&WS/HIST SCI/MED HIST 524 – THE MEDICAL HISTORY OF SEX AND SEXUALITY**

3 credits.

Examines the changing place of medicine and scientific authority in public and private sexual lives. Highlights the role of medicine in defining appropriate sexual behavior, understanding the cause of sexual deviance, and treating sexual problems and diseases.

**Requisites:** Prev history (incl med hist hist sci) crse preferred**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2009**GEN&WS 530 – BIOLOGY AND GENDER**

3 credits.

Examines the theories and methodologies of the relevant research areas in biology and animal behavior that underlie biological determinist theories of gender and gender differences, and explores alternative approaches, theoretical constructs and interpretations.

**Requisites:** Womens St 103 or cons inst Jr or Sr st**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN&WS/HIST SCI/MED HIST 531 – WOMEN AND HEALTH IN AMERICAN HISTORY**

3 credits.

Women as patients and as health professionals in America from the colonial period to the present.

**Requisites:** Jr st cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015

**GEN&WS/HIST SCI/MED HIST 532 – THE HISTORY OF THE (AMERICAN) BODY**

3 credits.

This course demonstrates that human bodies have social and cultural histories. It will highlight the social values placed on different bodies, the changing social expectations bodies create, and the role of science and medicine in creating the cultural meanings of bodies.

**Requisites:** Women St 103 or other women's studies crse required; prev hist (incl med hist hist sci) crse preferred

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**GEN&WS 533 – SPECIAL TOPICS IN WOMEN AND HEALTH**

3 credits.

Examination in depth of specific topics in the area of women's health. Critical reading of scientific literature and exploration of relevant biomedical issues in social, economic and cultural contexts.

**Requisites:** Women St 103 or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**GEN&WS 534 – GENDER, SEXUALITY, AND REPRODUCTION: PUBLIC HEALTH PERSPECTIVES**

3 credits.

This course explores several theoretical lenses, disciplinary approaches, and substantive topical areas relating to reproductive and sexual health. We will begin the course by investigating the development of "sexual health" as a phenomenon in public health research, policy, and programs looking back to feminist responses to population control policies of the 1970s. The subsequent weeks of the semester will cover substantive topical areas in the field (e.g., adolescent sexual development, contraception, and HIV/AIDS).

**Requisites:** GWS majors or certificate students and must have taken GWS 101, 102, or 103 or consent of instructor

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**GEN&WS/INTL ST 535 – WOMEN'S GLOBAL HEALTH AND HUMAN RIGHTS**

3 credits.

This course will take a human rights approach to global women's health to provide an overview of health issues within the context of a woman's life cycle. It will pay special attention to the socio-cultural and economic factors that play a role in determining women's access to quality basic health care.

**Requisites:** GWS 103 or another global health course

**Course Designation:** Breadth - Either Biological Science or Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEN&WS/ENGL 545 – FEMINIST THEORY AND WOMEN'S WRITING IN ENGLISH**

3 credits.

Subject will vary.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**GEN&WS 547 – THEORIZING INTERSECTIONALITY**

3 credits.

The aim of this course is to critically examine important issues, questions, and debates regarding intersectionality or the notion that race, gender, and sexuality, and other terrains of difference gain meaning from each other. It is interdisciplinary in its approach. Course materials include texts, films, and other multimedia resources drawn from an array of disciplines including sociology, critical race theory, history, political theory, and cultural studies.

**Requisites:** One of the following: GEN&WS/AFROAMER 333, GEN&WS 441, GEN&WS 445, GEN&WS/ENGL 545, GEN&WS/SOC 477, POLI SCI 517, POLI SCI/AFROAMER 519 or consent of instructor

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016



**GEN&WS/ED POL 560 – GENDER AND EDUCATION**

3 credits.

The impact of gender on educational performance and opportunity and the problems of integrating family and alternative lifestyle needs into educational policy and planning.

**Requisites:** Jr st and background in social sciences or cons inst

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**GEN&WS/SOC 611 – GENDER, SCIENCE AND TECHNOLOGY**

3 credits.

Examination of issues and theories in gender and science. Topics include historical and contemporary studies of technoscientific and medical constructions of sex/gender differences; feminist studies of science, technology, and medicine; proposals of new epistemologies.

**Requisites:** Junior standing, and one of: SOC/C&E SOC 475, Gender

Women's Studies 441, Gender Women's Studies 445, Soc/Gender

Women's Studies 477, or consent of instructor

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEN&WS/AFROAMER 624 – AFRICAN AMERICAN WOMEN'S ACTIVISM (19TH & 20TH CENTURIES)**

3 credits.

Examines Black women's struggles for racial justices; reconsiders conventional notions of leadership, politics and protest. Topics include abolitionism, anti-lynching campaigns, woman suffrage, labor movement, club movement, cultural expressions, civil rights protest, Black feminism/womanism, poverty and welfare rights, environmental racism, etc.

**Requisites:** So st; instr permission required

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**GEN&WS/AFROAMER 625 – GENDER, RACE AND THE CIVIL RIGHTS MOVEMENT**

3 credits.

This course focuses on the emerging field of gender studies in the scholarship on the post-World War II civil rights movement in the United States.

**Requisites:** Jr st; instr permission required

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEN&WS 640 – CAPSTONE SEMINAR IN GENDER AND WOMEN'S STUDIES**

3 credits.

Serves as the capstone, synthesizing seminar experience for Gender and Women's Studies majors. Students focus on the major contributions of gender and women's studies scholarship, hone their interdisciplinary skills, and apply their feminist theory knowledge. Course varies thematically each semester.

**Requisites:** Senior standing, a GenWS theory course (GEN&WS/AFROAMER 333, 440, 441, 445, 449, 477, 545, or 547), Gender and Women's Studies major consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEN&WS 642 – ADVANCED SEMINAR IN LGBT STUDIES (LGBT STUDIES CAPSTONE)**

3 credits.

Capstone for LGBT studies certificate; culminates certificate work through advanced interdisciplinary readings, analysis and discussion in LGBT studies and completion of a research project.

**Requisites:** Declared LGBT studies cert; Women St/Inter-LS 200; or Women St 340; or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEN&WS/URB R PL 644 – INTERNATIONAL DEVELOPMENT AND GENDER**

3 credits.

In addition to reviewing gender-within-development theory and practice, this course examines specific gender issues including social status and roles, productive and reproductive work, access to resources, identity and citizenship, empowerment, and intersection of race, class, and ethnicity with gender.

**Requisites:** Grad or Sr st

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**GEN&WS 660 – INTERNSHIP IN GENDER AND WOMEN'S STUDIES**

6 credits.

The internship program is designed to provide students with opportunities for learning and working in organizations in ways that connect their coursework in gender and women's studies to specific issues in community settings.

**Requisites:** Sr st; women's studies major; cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**GEN&WS 661 – GLOBAL INTERNSHIP IN GENDER AND WOMEN'S STUDIES**

1-6 credits.

Internship opportunity for learning and working abroad. Connects coursework in gender and women's studies to specific community organizations, educational projects, civic institutions and related missions and issues in selected countries.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**GEN&WS/AFROAMER 677 – CRITICAL AND THEORETICAL PERSPECTIVES IN BLACK WOMEN'S WRITINGS**

3 credits.

Analyses and interpretations of literary works by black women writers through historical, philosophical, political, feminist, and other contemporary critical methods. No prereq for Grads

**Requisites:** Undergrads: 2 crses in Afro-Amer lit above intro level, or equiv in another dept of lit.**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEN&WS/AFROAMER 679 – VISUAL CULTURE, GENDER AND CRITICAL RACE THEORY**

3 credits.

Examines tensions between visual and verbal representations that variably construct and negotiate power relations in racialized human experience.

**Requisites:** 3 crses at 300 level or above in any one of the following

areas: Afro-Amer studies; art; art hist; com arts; curric instr

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**GEN&WS 681 – SENIOR HONORS THESIS I**

3 credits.

Research and preparation for completing the senior honors capstone experience carried out under the supervision of an advisor in the women's studies program.

**Requisites:** Open to honors majors in women's studies cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN&WS 682 – SENIOR HONORS THESIS II**

3 credits.

Completion of the senior honors capstone project begun in Gender and Women's Studies 681 carried out under the supervision of an advisor in the women's studies program.

**Requisites:** GEN&WS 681 consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2015**GEN&WS 691 – SENIOR THESIS I**

2-3 credits.

Research and preparation for the writing of a senior thesis.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**GEN&WS 692 – SENIOR THESIS II**

2-3 credits.

Senior thesis.

**Requisites:** Women St 691 and cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**GEN&WS 699 – DIRECTED STUDY**

1-6 credits.

Graded on lettered basis.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GEN&WS 720 – SPECIAL TOPICS IN GENDER AND WOMEN'S STUDIES**

1-3 credits.

Advanced level investigation of some specific topic in gender and women's studies.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**GEN&WS/PSYCH 732 – PSYCHOLOGY OF WOMEN**

3 credits.

This course covers research and theory in psychology of women. Topics include nonsexist research methods, psychological gender differences, theories of moral development, women of color, mental health and feminist therapy, rape, sexual harassment, and public policy issues.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2012**GEN&WS/NURSING 735 – HEALTH PROMOTION AND DISEASE PREVENTION FOR WOMEN ACROSS THE LIFESPAN**

3 credits.

Identification of health concerns for women, recognizing differences among age, socioeconomic, and ethnic groups; synthesis of biophysiological, psychosocial, and cultural influences of such health concerns; analysis and proposal of interventions to promote overall health and to prevent problems among women.

**Requisites:** Grad st and a course in research design or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2010**GEN&WS/ENGL 737 – FEMINIST THEORY AND CRITICISM**

3 credits.

Feminist theory, with an emphasis on literary and cultural theory and criticism in English.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**GEN&WS/CURRIC 760 – SEX/GENDER-RELATED ISSUES IN CURRICULUM AND INSTRUCTION**

3 credits.

A poststructural feminist analysis of educational discourse and practice; examines selected sex/gender issues in curriculum and instruction; explores some implications for classroom teaching of the complex interrelationships between sex/gender, race, social class, sexuality, and ability/disability.

**Requisites:** Cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN&WS 790 – RESEARCH & THESIS: MASTER'S AND PROFESSIONAL LEVEL**

1-6 credits.

Research and thesis writing for students at the Master's and professional level.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GEN&WS 799 – INDEPENDENT RESEARCH AT THE MASTER'S AND PROFESSIONAL LEVEL**

1-3 credits.

Independent research for master's or professional level graduate students.

**Requisites:** Consent of the instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**GEN&WS/ED POL/PUB AFFR 805 – GENDER ISSUES IN INTERNATIONAL EDUCATIONAL POLICY**

3 credits.

Exploration and analysis of recent debates related to gender issues in international educational policy, including the intersection of education and demographic processes, the play of history and culture, and the social construction of gender.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2013**GEN&WS 880 – PROSEMINAR: GRADUATE STUDY IN GENDER AND WOMEN'S STUDIES**

3 credits.

Introduces new graduate students to the breadth of scholarship in Gender and Women's Studies. It also develops particular skills (critical reading, critical writing and basic research) important to graduate level scholarship.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**GEN&WS 900 – APPROACHES TO RESEARCH IN WOMEN'S STUDIES/  
GENDER STUDIES**

3 credits.

Transdisciplinary approaches to women's studies/gender studies. Emphasizes theoretical and methodological issues, the nature of interdisciplinary work, and the relationship to traditional disciplines, with an international and multicultural focus.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**GEN&WS/C&E SOC/SOC 904 – SOCIOLOGICAL PERSPECTIVES ON  
GENDER**

3 credits.

Advanced topics in the analysis of gender relations in society.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**GEN&WS/ANTHRO 920 – ANTHROPOLOGY OF GENDER**

3 credits.

Theoretical and ethnographic approaches to the anthropology of gender, focusing on current works. Topics include sexual inequality, research methods, gender and history, gender and ethnographic writing, cultural constructions of masculinity, sexuality, and gender studies and anthropological theory.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**GEN&WS/POLI SCI 933 – FEMINIST POLITICAL THEORY**

3 credits.

Focuses on how specific schools of feminist thought redefine the political, spanning historical and contemporary feminist political theory.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN&WS/HISTORY 938 – HISTORY OF SEXUALITY**

3 credits.

Using sexuality as a category of historical analysis, examines historiographical, methodological, and theoretical contributions to understanding all aspects of the past.

**Requisites:** Sr st or Grad st, cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**GEN&WS 950 – SEMINAR: TOPICS IN GENDER AND WOMEN'S STUDIES**

3 credits.

Research seminar on specific topics in gender and women's studies.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**GEN&WS 990 – RESEARCH & THESIS**

1-6 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**GEN&WS 999 – INDEPENDENT RESEARCH**

1-3 credits.

**Requisites:** Grad st, 3 cred in Gen WS and cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**GENERAL BUSINESS (GEN BUS)****GEN BUS 100 – INTRODUCTION TO BUSINESS**

3 credits.

Introduction to the basic concepts, practices and analytical methods that are part of the market enterprise system. Overview of the basic functions: management, accounting, finance, operations, and marketing conducted within a social and ethical framework.

**Requisites:** Open to Freshmen**Repeatable for Credit:** No**Last Taught:** Fall 2009**GEN BUS 110 – PERSONAL AND PROFESSIONAL FOUNDATIONS IN  
BUSINESS**

1 credit.

An introductory course for new business students covering the transition to college, academic exploration and planning, career development, self-assessment for personal development, leadership, and diversity and inclusion.

**Requisites:** Must be admitted to the undergraduate business (BBA) program via the direct admit admission process to enroll**Repeatable for Credit:** No**Last Taught:** Fall 2017

**GEN BUS 120 – PERSONAL AND PROFESSIONAL FOUNDATIONS IN BUSINESS**

1 credit.

An introductory course for new business students covering academic exploration and planning, career development, self assessment for personal development, leadership, and diversity and inclusion. Students self-report their class year during the BBA admission process

**Requisites:** Must be admitted to the undergraduate business (BBA) program to enroll and have sophomore standing, based on class year (not credits).

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEN BUS 130 – PERSONAL AND PROFESSIONAL FOUNDATIONS IN BUSINESS**

1 credit.

An introductory course for new business students covering academic planning, career development, self-assessment for personal development, leadership, and diversity and inclusion. Students self-report their class year during the BBA admission process

**Requisites:** Must be admitted to the undergraduate business (BBA) program to enroll and have junior standing, based on class year (not credits), or identify as a transfer student.

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**GEN BUS 140 – TEACHING, LEARNING, AND EFFECTIVE FACILITATION IN PEER TO PEER ENVIRONMENTS**

1 credit.

Introduction to effective facilitation strategies within peer to peer learning environments. Students will practice public speaking, presentation, and facilitation skills while also learning about college student development, classroom management, student engagement, and in-class assessment techniques to evaluate learning.

**Requisites:** Students enrolled in this class must be selected through the Compass facilitator hiring process coordinated by Wisconsin BBA staff and permissioned into this course once they have accepted their job offer

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**GEN BUS 170 – BUSINESS SCHOLARS SEMINAR**

1 credit.

To educate students about the courses and programs in each of the academic departments in the School of Business. To inform students about career, research, service and leadership opportunities.

**Requisites:** Open only to 1st yr bus scholar stdts

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2009

**GEN BUS 198 – DIRECTED STUDY**

1 credit.

Directed study and research in business topics.

**Requisites:** Open to Freshmen Sophomore stdts who have been admitted to Bus Scholars Prgm

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2008

**GEN BUS 300 – PROFESSIONAL COMMUNICATION**

3-4 credits.

Expository writing relative to written communications used in organizations: letters, factual memoranda, brief reports, technical research reports. Development of skills in oral and graphic communications; committee reports, staff presentations. Not open to grad students. This course should be taken within the first two semesters after admission to the School of Business

**Requisites:** Sophomore, Junior or Senior standing.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEN BUS 301 – BUSINESS LAW**

3 credits.

History of legal development, contracts, agency, sale of goods, insurance.

**Requisites:** Junior or Senior standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEN BUS 302 – BUSINESS ORGANIZATIONS AND NEGOTIABLE INSTRUMENTS**

3 credits.

Commercial paper, real estate and personal property, partnerships, corporations, bankruptcy.

**Requisites:** Junior or Senior standing; Gen Bus 301

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEN BUS 303 – BUSINESS STATISTICS**

3 credits.

Data collection, data structures in a business setting, frequency tables and plots, descriptive statistics, correlation tables and regression formulation, normal and binomial distributions, quality, surveys.

**Requisites:** 1 semester calculus, at least Sophomore standing

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2015

**GEN BUS 304 – INTERMEDIATE BUSINESS STATISTICS**

3 credits.

Methods for analyzing business and economic data. Review of classical statistical inference; multiple regression and correlation; process analysis and time series.

**Requisites:** So, Jr, or Sr st; MATH 211, 221, 222 or equiv; Gen Bus 303 or equiv

**Repeatable for Credit:** No

**Last Taught:** Summer 2015

**GEN BUS 306 – BUSINESS ANALYTICS I**

3 credits.

This course is designed to develop quantitative intuition through practical applications and use of analysis tools. Specifically, emphasis will be on how to manage, summarize, explore, and visualize databases. The essentials of probability will be introduced and applied to decision problems where there is uncertainty. The course will also emphasize hypothesis testing and regression analysis and include an introduction to simulation methods. Throughout this course, attention will be paid to effective communication of data analysis. The use of business cases will connect the course material to both real world settings and recent advances in data analysis, including big data and data mining.

**Requisites:** Sophomore standing and MATH 211, 217 or 221**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN BUS 307 – BUSINESS ANALYTICS II**

3 credits.

The course emphasizes hands on experience with many commonly used analytic methodologies using the modelling and optimization tools available on almost every professional desktop. The focus is predictive and prescriptive analytics. Predictive approaches use historical data to infer causal relationships and forecast future outcomes from a given action. Prescriptive methods take this a step further, helping managers formulate decision models that identify optimal actions given a set of circumstances.

**Requisites:** GEN BUS 306**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN BUS 310 – FUNDAMENTALS OF ACCOUNTING AND FINANCE FOR NON-BUSINESS MAJORS**

3 credits.

Part of a two course sequence introducing non-business students to basic concepts, practices and analytical methods that are part of the market enterprise system. This course is a basic overview on: accounting, finance, and business law.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN BUS 311 – FUNDAMENTALS OF MANAGEMENT AND MARKETING FOR NON-BUSINESS MAJORS**

3 credits.

Introduces non-business students to basic concepts and practices in business. This course is a basic overview of: management, marketing, strategy, entrepreneurship, ethics, supply chain and international business. Not open to students in the School of Business

**Requisites:** Sophomore standing.**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN BUS/INTL BUS 320 – INTERCULTURAL COMMUNICATION IN BUSINESS**

3 credits.

Develops awareness and knowledge of cultural influences on business. Focuses on various attitudes toward work, time, material possession, business, and the relationship of these attitudes to different social, religious, philosophical, and educational backgrounds of business people from cultures around the world.

**Requisites:** So st**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN BUS 365 – CONTEMPORARY TOPICS**

1-3 credits.

A course for the exploration of subject areas possibly to be introduced into the business curriculum.

**Requisites:** Prerequisite varies by topic**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**GEN BUS 380 – BUSINESS SCHOLARS AND HONORS SEMINAR**

1 credit.

Discussion and analysis of contemporary issues, events, and topics in the business world.

**Requisites:** Open only to 2nd, 3rd 4th yr bus scholar stdts those admitted to Business Honors in Liberal Arts prgm**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2009**GEN BUS 399 – READING AND RESEARCH-BUSINESS RESEARCH**

1-6 credits.

**Requisites:** Jr or Sr st; cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**GEN BUS 450 – PROFESSIONAL EXPERIENCE IN BUSINESS**

1 credit.

Internship which allows students to augment their business education and gain professional experience in their major through related work experience. Crse may be repeated two times. Acctg Majors: Gen Bus 450 internships are not available with firms who participate in the department's Acct IS 600 internship. See listing on acctg dept website

**Requisites:** Admitted bus stdt with So, Jr, or Sr st; cons inst required.**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, for 2 number of completions**Last Taught:** Fall 2017

**GEN BUS 451 – PROFESSIONAL EXPERIENCE IN BUSINESS-EXTENDED INTERNSHIP**

1 credit.

Only allowed for six to eight month internships which will allow students to augment their business education and gain professional experience in their major area. Students receive one credit and will remain a full-time student.

**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN BUS 600 – TOPICS ON SUSTAINABLE BUSINESS PRACTICES**

3 credits.

Gives students knowledge and skills so that they can help organizations understand and act on the principles of sustainability. Main topics include sustainability as an element of strategy, the business case for sustainability, and the social side of sustainability. A real-world team project that draws on the concepts taught in the course is an important element.

**Requisites:** Jr or Sr st**Repeatable for Credit:** No**Last Taught:** Fall 2013**GEN BUS/ENVIR ST 601 – SYSTEMS THINKING AND SUSTAINABLE BUSINESSES**

3 credits.

Introduces students to the concept of systems thinking so as to allow them to use systems to bring about large scale social change, both within the business community and within our societal infrastructure.

**Requisites:** Admitted bus stdt with Jr or Sr st or envr studies stdt**Repeatable for Credit:** No**Last Taught:** Spring 2014**GEN BUS 700 – MANAGERIAL COMMUNICATION**

1-2 credits.

Focuses on strategic aspects of communication goals for managers and practice in skills needed to carry out writing and speaking objectives.

**Requisites:** Grad st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEN BUS/R M I 701 – MANAGING LEGAL RISKS**

3 credits.

Legal implications for business managers of selected areas of the law including negligence, contract, intellectual property, officer/director liability, financing the business enterprise, and employment and trade regulation; introduction to the legal process, including alternative dispute resolution systems.

**Requisites:** Grad standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEN BUS 704 – DATA TO DECISIONS**

3 credits.

Basic analytical and decision making skills for MBA students. Focuses on development and utilization of analytical techniques based on probability, statistics and spreadsheet modeling to formulate and analyze issues central to management decision making in a wide variety of business situations and applications.

**Requisites:** Gen Bus 303 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**GEN BUS 710 – ETHICS, INTEGRITY AND SOCIETY**

1 credit.

This class is designed to prepare students for dealing with ethical challenges in the world outside academia. Focus is on the role of personal values in all types of decision making, from personal to professional.

**Requisites:** 2nd yr MBA degree candidate**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN BUS 750 – PROFESSIONAL EXPERIENCE IN BUSINESS**

1 credit.

Internship which allows students to augment their business education and gain professional experience in their major through related work experience.

**Requisites:** Masters stdt in business cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GEN BUS 765 – CONTEMPORARY TOPICS**

1-4 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**GEN BUS/ECON/STAT 775 – INTRODUCTION TO BAYESIAN DECISION AND CONTROL I**

3 credits.

Common sampling models in business and economic problems, information from data, likelihood function of parameters, choices of models, Bayes' Theorem, subjective basis for probability, sequential nature of Bayesian inference, prior and posterior distributions of parameters in binomial, poisson, exponential and normal populations, comparison of two normal distributions, predictive distributions, decision theory, utility, risk aversion, extensive form of analysis, two-action problems, point estimation, best population problems, economics of sampling.

**Requisites:** MATH/STAT/MATH 309 or STAT 311**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEN BUS/ACCT I S/E P D 781 – FINANCIAL AND BUSINESS ACUMEN**

1 credit.

This course is designed with a keen awareness for the needs of the non-financial student or professional. For this class, no previous financial training is required. The intent is to equip you with the essential concepts used to develop financial literacy. Content will cover basic financial terms and reports, analytical tools to help interpret financial data and using financial data in budgets and forecasts. This course will not apply toward fulfilling the MBA degree requirements.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**GEN BUS/E P D/MARKETNG 782 – MARKETING FOR NON-MARKETING PROFESSIONALS**

1 credit.

An overview of marketing's role within an organization, the key elements of a marketing plan, and how the plan is implemented. Students will learn about buyer demographic, psychographic and purchasing decision behavior. A thorough understanding of the customer enables students to develop a coordinated marketing mix (product, price promotion and place) that will satisfy the customer better than the competition and at the required margin. Students will leave the course understanding the degree to which all company functions must be coordinated and focused on the customer. This course will not apply toward fulfilling the MBA degree requirements.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**GEN BUS/E P D/M H R 783 – LEADING TEAMS**

1 credit.

Students will gain the knowledge and skills to continuously enhance their own team performance and productivity as well as the teams they are involved with. They will also be in a much better position to lead teams effectively. This course will not apply toward fulfilling the MBA degree requirements.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN BUS/E P D/OTM 784 – PROJECT MANAGEMENT ESSENTIALS**

1 credit.

This project management course teaches techniques that will help you plan, execute, and deliver projects with desired scope on time and on budget. Learn to document clear project objectives and goals, accurately estimate project time and costs, schedule and allocate time-critical resources, and establish feedback systems for optimal project control.

This course will not apply toward fulfilling the MBA degree requirements.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**GEN BUS/E P D/M H R 785 – EFFECTIVE NEGOTIATION STRATEGIES**

1 credit.

This course aims at improving students' negotiating skills, doing so by providing a theoretical underpinning that will help them to understand the sources of effective and ineffective approaches to negotiations. This course will not apply toward fulfilling the MBA degree requirements.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**GEN BUS 799 – READING AND RESEARCH-BUSINESS RESEARCH**

1-6 credits.

Individual work suited to the needs of graduate students may be arranged both during regular sessions and during the intersession periods.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014**GEN BUS 806 – PANEL DATA ANALYSIS**

3 credits.

Linear fixed and random effects models; estimation and prediction; data exploration, diagnostics and model selection techniques; generalized linear panel data models.

**Requisites:** STAT 849, ECON 709 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013

**GEN BUS 933 – BEGINNING A RESEARCH CAREER IN BUSINESS**

1 credit.

This one credit course is required of incoming students in the Wisconsin School of Business PhD program. Students are often overwhelmed and do not absorb material when offered all at once before they begin their regular courses. This format offers fundamental content about conducting research and academic life that is not specific to a given department in the business school, but will help to frame and motivate other studies. This format gives students more time to absorb the content at a point when they can better see how it applies to them.

**Requisites:** Business PhD students only**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEN BUS 965 – CONTEMPORARY TOPICS**

1-4 credits.

Provides in-depth coverage of contemporary topics emphasizing new and emerging issues for PhD students in business or in majors related to business. Students will meet in a seminar format that incorporates discussions, presentations, lectures by the instructor, and relevant invited guest speakers.

**Requisites:** PhD status in specified majors cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**GEN BUS 975 – PH.D. COMMUNICATION FOR DISSERTATORS**

1 credit.

Review of research writing and presentation strategies and practice drafting, editing, and presenting proposal and/or dissertation sections for feedback and revision. Seminar/workshop designed for post-prelim dissertators: focuses on advanced structural and clarity issues, not basic writing/grammar.

**Requisites:** Bus PhDs: dissertator status; non-Bus PhDs: dissertator status cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**GEN BUS 999 – READING AND RESEARCH-BUSINESS RESEARCH PHD**

1-6 credits.

Individual work suited to the needs of Ph.D. students may be arranged both during regular sessions and during the intersession periods.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2001**GENETICS (GENETICS)****GENETICS 1 – COOPERATIVE EDUCATION/CO-OP IN GENETICS**

1 credit.

Full-time off-campus work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career. Students receive credit only for the term in which they are actively enrolled and working. The same work experience may not count towards credit in GENETICS 399.

**Requisites:** So st, and consent of supervising instructor and academic advisor.**Repeatable for Credit:** Yes, unlimited number of completions**GENETICS 133 – GENETICS IN THE NEWS**

3 credits.

The science of genetics is at the heart of many issues facing our society, and as such, genetics is often in the news. This course explores the underlying genetics and methodologies to gain a deeper understanding of the science behind the headlines so that we can make more informed decisions as citizens. This course is intended for non-biological science majors, but a high school or college-level biology course is recommended as a prerequisite.

**Requisites:** None**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GENETICS 155 – FRESHMAN SEMINAR IN GENETICS**

1 credit.

This seminar will introduce freshman to the discipline of genetics, to the UW Laboratory of Genetics, to some of the research projects the faculty are pursuing, to resources available at UW-Madison, and to the career options open to an individual with a genetics undergraduate degree.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**GENETICS 289 – HONORS INDEPENDENT STUDY**

1-2 credits.

Inter-Ag 288

**Requisites:** Enrolled in the CALS Honors Prgm Soph or Junior standing.**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2010**GENETICS 299 – INDEPENDENT STUDY**

1-3 credits.

Open to Freshmen

**Requisites:** Freshmen, Sophomore or Junior standing written consent of instructor.**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**GENETICS 375 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**GENETICS 399 – COORDINATIVE INTERNSHIP/COOPERATIVE EDUCATION**

1-8 credits.

**Requisites:** So, Jr or Sr st and cons supervising inst, advisor, and internship program coordinator**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**GENETICS 400 – STUDY ABROAD IN GENETICS**

1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. W.-Madison Study Abroad Program

**Requisites:** Current registration in a U.**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**GENETICS 466 – PRINCIPLES OF GENETICS**

3 credits.

Genetics in eukaryotes and prokaryotes. Includes Mendelian genetics, mapping, molecular genetics, genetic engineering, cytogenetics, quantitative genetics, and population genetics. Illustrative material includes viruses, bacteria, plants, fungi, insects, and humans. Students may not enroll for GENETICS 466 and GENETICS 467/468. Not eligible to enroll if credit earned for GENETICS 467 or 468

**Requisites:** (BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151 or BIOCORE 381 or BIOLOGY/BOTANY/BIOLOGY 130 or BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102) and (CHEM 104 or CHEM 109 or CHEM 115).**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GENETICS 467 – GENERAL GENETICS 1**

3 credits.

Genetics of eukaryotes and prokaryotes. Includes Mendelian genetics, probability and hypothesis testing, genetic mapping, molecular genetics, gene expression and genetic engineering. Illustrative material includes viruses, bacteria, plants, fungi, insects, and humans. Students may not enroll for GENETICS 466 and GENETICS 467/468. Not eligible to enroll if credit earned for GENETICS 466

**Requisites:** (BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151 or BIOCORE 381 or BIOLOGY/BOTANY/BIOLOGY 130 or BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102) and (CHEM 104 or CHEM 109 or CHEM 115).**Repeatable for Credit:** No**Last Taught:** Fall 2017**GENETICS 468 – GENERAL GENETICS 2**

3 credits.

Genetic analysis, population genetics, evolution and quantitative genetics. Includes mutant screens, pathway analysis, mosaic analysis, reverse genetics, genomics, Hardy-Weinberg linkage equilibrium, inbreeding, genetic drift, natural selection, population structure, inheritance of complex traits, domestication and human evolution. Students may not enroll in GENETICS 466 and GENETICS 467/468.

**Requisites:** GENETICS 467 (not eligible to enroll if credit earned for GENETICS 466)**Repeatable for Credit:** No**Last Taught:** Spring 2017**GENETICS 470 – BASIC CYTOLOGY AND LABORATORY PROCEDURES**

1 credit.

A comprehensive review of cellular biology, the study of optical methods with emphasis on the light microscope and the various techniques used in preparation and staining of specimens for cytologic and histologic study.

**Requisites:** Stdt must be enrolled in the cytotechnology internship prgm at the WI State Lab of Hygiene**Repeatable for Credit:** No**Last Taught:** Fall 2017**GENETICS 471 – ADVANCED LABORATORY PROCEDURES**

1 credit.

Preparation of non-gynecologic cytologic specimens using several different instrument methodologies. Application of universal precautions and safety in the handling of unknown biologic hazards. Introduction to histologic preparatory techniques and special staining methods.

**Requisites:** Stdt must be enrolled in the cytotechnology internship prgm at the WI State Lab of Hygiene**Repeatable for Credit:** No**Last Taught:** Spring 2017

**GENETICS/BIOLOGY 522 – EVOLUTION SEMINAR SERIES-  
UNDERGRADUATE**

1 credit.

The Evolution Seminar Series exposes students to diverse topics in contemporary evolutionary biology. Most weeks, one or more guest lecturers present their own primary research on a specialized topic in evolutionary biology. Diverse seminars include perspectives from genetics, ecology, geoscience, zoology, botany, microbiology, systematics, molecular biology, and integrative research. Some weeks feature special topics and discussions on pedagogical, legal, outreach, or other issues in evolutionary biology. Students learn to think critically about methodology, experimental design and interpretation, and how conclusions are reached in evolutionary biology by reading primary and secondary literature, attending seminars, discussing topics with speakers and other students, moderating discussions, and preparing a written report.

**Requisites:** Prior or concurrent enrollment in ZOOLOGY/ANTHRO/BOTANY 410

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GENETICS 545 – GENETICS LABORATORY**

2 credits.

Students gain practical experience in classical and molecular genetic laboratory techniques using plants, animals, and fungi. Topics include complementation and linkage analysis, gene mapping, library screening, yeast and bacterial transformation, restriction analysis, PCR, sequencing, and Southern blot analysis.

**Requisites:** GENETICS 466 or equiv

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GENETICS 548 – COMPARATIVE AND FUNCTIONAL GENOMICS**

3 credits.

Provides a broad survey of the field to enhance student appreciation for the profound advances that are now possible thanks to genomic data and thinking.

**Requisites:** GENETICS 466, 468, or BIOCORE 587

**Repeatable for Credit:** No

**GENETICS/HORT 550 – MOLECULAR APPROACHES FOR POTENTIAL  
CROP IMPROVEMENT**

3 credits.

Introduction of basic concepts of plant molecular biology and molecular techniques in current use. Topics include: organization and regulation of plant genes, gene cloning and analysis, transformation systems for plants, and molecular techniques for crop improvement.

**Requisites:** BIOCHEM 501 and GENETICS 466 or equiv courses

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GENETICS/BOTANY/HORT 561 – INTRODUCTORY CYTOGENETICS**

2-3 credits.

Mitosis, meiosis, variations in chromosome structure and number, cytological aspects of hybridity and apomixis; chromosomes as they affect breeding behavior.

**Requisites:** Genetics, Botany, Zoology 466 or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**GENETICS/MD GENET/ZOOLOGY 562 – HUMAN CYTOGENETICS**

2 credits.

Fundamental principles of cytogenetics and special problems of human cytogenetics for biology and medical students.

**Requisites:** GENETICS 466, 468, BIOCORE 587, or BMOLCHEM/MD GENET 721

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GENETICS 564 – GENOMICS AND PROTEOMICS**

3 credits.

The basic principles of genomics, proteomics and bioinformatics will be taught through active-learning techniques that include: readings of primary literature, group presentations, peer review, bioinformatic lab exercises, science writing, and project-based learning experiences. Emphasis will be placed upon how to effectively communicate science (written, oral and written). Topics include: genomic sequencing, phylogeny, domain analysis, transcriptomics, CRISPR screens, chemical genomics, quantitative proteomics and protein networks. Capstone course. BIOCHEM 501 and MICROBIO 303 are recommended. Not open to graduate students

**Requisites:** GENETICS 466, 468, or BIOCORE 587.

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GENETICS/MD GENET 565 – HUMAN GENETICS**

3 credits.

Principles, problems, and methods of human genetics. Surveys aspects of medical genetics, biochemical genetics, molecular genetics, cytogenetics, quantitative genetics, and variation as applied to humans.

**Requisites:** Graduate standing, GENETICS 466, 468, or BIOCORE 587

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GENETICS 566 – ADVANCED GENETICS**

3 credits.

Principles of classical and modern genetic analysis taught through readings in the scientific literature and group projects. Capstone course.

**Requisites:** Declared in Genetics undergraduate program and GENETICS 466, 468, or BIOCORE 587

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GENETICS 567 – COMPANION RESEARCH SEMINAR**

1 credit.

Student-led discussions on scientific, societal, and professional topics relevant to Senior research and selected original research presentations. This course is a companion seminar for independent research and together will fulfill the Genetics major capstone requirement. Students should have completed GENETICS 466, 468 or BIOCORE 587 in previous semesters. Concurrent enrollment in GENETICS 699, GENETICS 681, or GENETICS 399 is required.

**Requisites:** Consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GENETICS 568 – THE CENTRAL NERVOUS SYSTEM**

1 credit.

Anatomy, physiology, histology and pathology of the central nervous system and the corresponding cellular manifestations which provide diagnostic information. Cell changes related to specimen preparation. Correlation of the didactic information with the microscopic cellular patterns to provide a diagnosis.

**Requisites:** Stdnt must be enrolled in the cytotechnology internship prgm at the WI State Lab of Hygiene

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GENETICS 569 – THE BREAST**

1 credit.

Anatomy, histology, physiology and pathology of the breast and the corresponding cellular manifestations which provide diagnostic information. Cell changes related to specimen processing. Correlation of the didactic information with the microscopic cell patterns to provide a diagnosis.

**Requisites:** Stdnt must be enrolled in the cytotechnology internship prgm at the WI State Lab of Hygiene

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GENETICS 570 – THE FEMALE REPRODUCTIVE SYSTEM**

8 credits.

Anatomy, histology, physiology, and pathology of the female reproductive tract and the corresponding cellular manifestations which provide diagnostic information. Cellular changes due to therapy and specimen collection. Correlation of the didactic information with the microscopic cellular patterns to provide a diagnosis.

**Requisites:** Stdnt must be enrolled in the cytotechnology internship prgm at the WI State Lab of Hygiene

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GENETICS 571 – CLINICAL PRACTICE I**

1 credit.

Clinical practicum to develop diagnostic expertise involving the microscopic examination of routine gynecologic specimens (Pap smears). Observe the signout of abnormal cytologic specimens by cytopathologist staff.

**Requisites:** Stdnt must be enrolled in the cytotechnology internship prgm at the WI State Lab of Hygiene

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GENETICS 572 – THE RESPIRATORY SYSTEM**

3 credits.

Anatomy, histology, physiology and pathology of the respiratory tract and the corresponding cellular manifestations which provide diagnostic information. Cell changes related to specimen processing. Correlation of the didactic information with the microscopic cellular patterns to provide a diagnosis.

**Requisites:** Stdnt must be enrolled in the cytotechnology internship prgm at the WI State Lab of Hygiene

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GENETICS 573 – THE GENITOURINARY SYSTEM**

2 credits.

Anatomy, physiology, histology and pathology of the urinary tract and male reproductive systems and the corresponding cellular manifestations which provide diagnostic information. Cell changes related to specimen processing. Correlation of didactic information with microscopic cell patterns to provide a diagnosis.

**Requisites:** Stdnt must be enrolled in the cytotechnology internship prgm at the WI State Lab of Hygiene

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**GENETICS 574 – THE GASTROINTESTINAL SYSTEM**

3 credits.

Anatomy, histology, physiology and pathology of the gastrointestinal system and the corresponding cellular manifestations which provide diagnostic information. Cell changes related to specimen processing. Correlation of the didactic information with the microscopic cellular patterns to provide a diagnosis.

**Requisites:** Stdt must be enrolled in the cytotechnology internship prgm at the WI State Lab of Hygiene

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GENETICS 575 – MISCELLANEOUS SYSTEMS**

3 credits.

Anatomy, histology, physiology and pathology of skin, thyroid, lymph nodes and other sites and the corresponding cellular manifestations which provide diagnostic information. Emphasis on specimen collection by fine needle aspiration. Correlation of the didactic information with the microscopic cellular patterns to provide a diagnosis.

**Requisites:** Stdt must be enrolled in the cytotechnology internship prgm at the WI State Lab of Hygiene

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GENETICS 576 – EFFUSIONS**

2 credits.

Anatomy, physiology, histology and pathology of the body cavities. Cytologic manifestations which provide diagnostic information. Cell changes related to specimen processing. Correlation of the didactic information with the microscopic cellular patterns to provide a diagnosis.

**Requisites:** Stdt must be enrolled in the cytotechnology internship prgm at the WI State Lab of Hygiene

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GENETICS 577 – APPLIED CYTOLOGY I**

1 credit.

Written and practical application of the comprehensive body of knowledge to all aspects of preparation, evaluation, correlation and diagnosis of cytologic specimens.

**Requisites:** Stdt must be enrolled in the cytotechnology internship prgm at the WI State Lab of Hygiene

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GENETICS 578 – APPLIED CYTOLOGY II**

1 credit.

Written and practical application of the advanced comprehensive body of knowledge to all aspects of preparation, evaluation, correlation and diagnosis of cytologic specimens. Practice in nationally offered cytologic examinations.

**Requisites:** Stdt must be enrolled in the cytotechnology internship prgm at the WI State Lab of Hygiene

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**GENETICS/MICROBIO 607 – ADVANCED MICROBIAL GENETICS**

3 credits.

Molecular genetic methods and related aspects of prokaryotic and lower eukaryotic biology, as well as critical analysis of the scientific literature. Approximately two-thirds of the course will focus on prokaryotes and one-third on lower eukaryotic microbes.

**Requisites:** GENETICS 466 or equiv, BIOCHEM 501 or equiv, Grad st or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GENETICS/AN SCI 610 – QUANTITATIVE GENETICS**

3 credits.

An advanced approach with emphasis on statistical foundations. Classical theory with extensions to maternal and paternal effects. Selection theory is considered in depth.

**Requisites:** GENETICS 466 and Statistics 572 or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GENETICS/BIOCHEM/MICROBIO 612 – PROKARYOTIC MOLECULAR BIOLOGY**

3 credits.

Molecular basis of bacterial physiology and genetics with emphasis on molecular mechanisms; topics include nucleic acid-protein interactions, transcription, translation, replication, recombination, regulation of gene expression.

**Requisites:** Bact 370 or equiv BIOCHEM 501 or equiv, or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GENETICS/BIOCHEM/MD GENET 620 – EUKARYOTIC MOLECULAR BIOLOGY**

3 credits.

This course focuses on the basic molecular mechanisms that regulate DNA, RNA, and protein metabolism in eukaryotic organisms. This course is intended for advanced undergraduates and first year graduate students with a firm knowledge of basic biochemistry.

**Requisites:** BIOCHEM 501 or 508 or graduate standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**GENETICS/ENTOM/ZOOLOGY 624 – MOLECULAR ECOLOGY**

3 credits.

Basic principles of molecular ecology. Lecture topics include population genetics, molecular phylogenetics, rates and patterns of evolution, genome evolution, and molecular ecology.

**Requisites:** BOTANY/GENETICS/ZOOLOGY 466, GENETICS 467 or BIOCORE 383 or graduate student standing

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GENETICS/CHEM 626 – GENOMIC SCIENCE**

2 credits.

This course is designed to bring cutting-edge topics in the genomic sciences into the reach of traditionally "pure" chemistry, biology, engineering, computer science statistics students. It is also designed for enabling biologically-oriented students to deal with the advances in analytical science so that they may incorporate new genomic science concepts into their own scientific repertoires. Intended for graduate students and for undergraduates with extensive research experience.

**Requisites:** Graduate standing

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GENETICS 627 – ANIMAL DEVELOPMENTAL GENETICS**

3 credits.

Advanced Genetics course focusing on genetic mechanisms of animal embryonic development, with particular emphasis on central molecular circuitries that control development and genetic analytical tools used to reveal them. Using a combination of lectures and primary research literature reading/student-led seminars, we will address topics including maternal and epigenetic inheritance, the egg-to-embryo transition, pattern formation, organogenesis, coordination of cellular and molecular mechanisms, and animal models of human congenital disorders.

ZOOLOGY 470 is recommended

**Requisites:** GENETICS 466 or Consent of Instructor.

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GENETICS/BOTANY/MD GENET 629 – EVOLUTIONARY GENETICS**

3 credits.

Basic principles of phylogenetics, population genetics and quantitative genetics including the construction of gene trees, forces affecting the amount and distribution of genetic variation in populations, and the inheritance and evolution of multifactorial characters. Knowledge of intro calc stats or cons inst

**Requisites:** GENETICS 466 or Biocore 301 302 or equiv.

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**GENETICS 631 – PLANT GENETICS**

2 credits.

This is a graduate-level course in plant genetics. We will cover the basic concepts of genetics and genomics as applied to plants, including discussions on breeding systems (modes of reproduction, sex determination, self incompatibility and crossing barriers), linkage analysis, genome structure and function (structure, function and evolution of nuclear and organellar chromosomes; haploidy and polyploidy; expression regulation and epigenetics), and a description of current methodologies used in the analysis of these processes. Our objective is to instigate in students a broader knowledge and understanding of the principles and methodologies used in plant genetics such that they can adopt them most effectively in their own research projects, and can describe and discuss them more thoroughly with the general public. This course is based on lectures and in-class discussions of assigned readings.

**Requisites:** GENETICS 466 or equivalent

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GENETICS 633 – POPULATION GENETICS**

3 credits.

This is a graduate-level (and upper-level undergraduate) course in population genetics, aimed at preparing students to initiate research in this field. We will explore how genetic variation is influenced by mutation and recombination, population size changes and migration, and natural selection for or against new mutations. Undergraduates who have completed GENETICS 468, GENETICS 466, or BIOCORE 587 may contact the instructors to discuss the appropriateness of this course for their curriculum.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GENETICS/BOTANY/ZOOLOGY 645 – MODELING IN POPULATION GENETICS AND EVOLUTION**

3 credits.

Introduction to mathematical techniques and approaches for predicting evolutionary change within populations. Concentrates on classic population genetic models and results, including selection on one and several loci; mutation; non-random mating; drift. Evaluation based on periodic problem sets and independent projects.

**Requisites:** Intro evolution, intro genetics, calculus, or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**GENETICS/BOTANY/M M & I/MICROBIO/PL PATH 655 – BIOLOGY AND GENETICS OF FILAMENTOUS FUNGI**

3-4 credits.

Fungal genetics, genomics, and physiology using plant pathogenic fungi and the genetic models *Aspergillus nidulans* and *Neurospora crassa* as model systems to explore the current knowledge of fungal genetics and plant/fungal interactions.

**Requisites:** Cons inst; PI Path 300 332 recommended; GENETICS 466 or equiv; general microbiol crse

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**GENETICS 660 – EVOLUTIONARY GENOMICS**

2 credits.

We will present and discuss modern topics in evolutionary genomics, including genomic approaches, their application to evolutionary biology, and insights gleaned from such studies. Topics include evolution of genome architecture, gene content, and sequences. The course also covers molecular evolution as applied to the genome scale.

**Requisites:** GENETICS 466 or Biocore 301/302 sequence or equivalent, and consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GENETICS 662 – CANCER GENETICS**

2 credits.

Cancer remains one of the most difficult health issues facing our society. There is hope in the horizon due to an increasing understanding of both genetic and epigenetic alterations in cancer. In particular, DNA sequencing of human cancers is becoming more common in major health care centers, and there is expectation that this technology will allow for personalized medicine. Thus, there has been a rapid increase in this knowledge over the last decade. It is expected that students will become aware of the current major issues in cancer research and will be able to critically evaluate the cancer genetics literature.

**Requisites:** GENETICS 466, 467 or BIOCORE 383

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GENETICS 670 – SEMINAR IN CLINICAL CYTOGENETICS**

1 credit.

Overview of the basic features of chromosome structure and behavior including karyotyping clinical correlates of numerical and structural chromosome aberrations, sex chromosome abnormalities, breakage syndromes and the chromosomal changes associated with the development of cancer.

**Requisites:** Stdt must be enrolled in the cytotechnology internship prgm at the WI State Lab of Hygiene

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GENETICS 671 – ADVANCED CLINICAL PRACTICE**

8 credits.

Clinical practicum to develop diagnostic expertise of cytologic specimens. Examine challenging cases with emphasis on diagnostic pitfalls. Observe patient clinics related to cytologic specimen collection. Participate at clinical experiences in fine needle aspiration, histology, and a private cytology laboratory.

**Requisites:** Stdt must be enrolled in the cytotechnology internship prgm at the WI State Lab of Hygiene

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**GENETICS 672 – SEMINAR IN LABORATORY OPERATIONS AND QUALITY CONTROL**

1 credit.

Review the fundamentals of basic administrative functions and regulatory requirements including planning, organizing, supervising and controlling business management, record keeping, data processing and laboratory safety. Quality assurance procedures necessary for obtaining, processing, diagnosing and reporting cytologic specimens.

**Requisites:** Stdt must be enrolled in the cytotechnology internship prgm at the WI State Lab of Hygiene

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GENETICS 673 – SEMINAR IN CLINICAL CYTOLOGY**

1 credit.

Preparation of a case study or clinical topic of choice by each student to present to a peer professional group of cytology staff and medical faculty. Preparation of a referenced scientific term paper or participation in an approved research or class project pertaining to clinical cytology.

**Requisites:** Stdt must be enrolled in the cytotechnology internship prgm at the WI Statte Lab of Hygiene

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GENETICS/MD GENET 677 – ADVANCED TOPICS IN GENETICS**

1-3 credits.

Contents vary; consideration of subjects not included in the curriculum.

**Requisites:** Graduate standing or GENETICS 466, GENETICS 468 or BIOCORE 383

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**GENETICS 681 – SENIOR HONORS THESIS**

2-4 credits.

**Requisites:** Honors candidacy

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**GENETICS 682 – SENIOR HONORS THESIS**

2-4 credits.

Continuation of 681.

**Requisites:** Honors program candidacy GENETICS 681

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GENETICS 699 – SPECIAL PROBLEMS**

1-3 credits.

Advanced work not covered in regular courses.

**Requisites:** Cons inst and Sr st

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**GENETICS 701 – ADVANCED GENETICS**

3 credits.

Advanced Genetics is the first semester course of a 2-semester core series (GENETICS 701 and GENETICS 702) for first-year graduate students in the Genetics doctoral degree program. This series provides professional level training in genetic mechanisms and analysis as applied to genetic transmission, gene expression, forward and reverse genetics, population and quantitative genetics, molecular genetics, genomics, developmental genetics and epigenetics. Lectures are coupled with assigned readings of peer-reviewed literature that serve as the basis for graded in-class presentations and discussion, homework questions and essays.

**Requisites:** Declared in Genetics doctoral program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GENETICS 702 – ADVANCED GENETICS II**

3 credits.

Advanced Genetics II is the second semester course of a 2-semester core series for first-year graduate students in the Genetics doctoral degree program. This series provides professional level training in genetic mechanisms and analysis as applied to genetic transmission, gene expression, forward and reverse genetics, population and quantitative genetics, molecular genetics, genomics, developmental genetics and epigenetics. Lectures are coupled with assigned readings of peer-reviewed literature that serve as the basis for graded in-class presentations and discussion, homework questions and essays.

**Requisites:** GENETICS 701

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GENETICS/BIOCHEM 703 – TOPICS IN EUKARYOTIC REGULATION**

2 credits.

Design and interpretation of experiments addressing molecular mechanisms of eukaryotic regulation. For first year graduate students with firm knowledge of basic biochemistry, molecular biology and genetics.

**Requisites:** Must have taken Biochem/Genetics/Microbiology 612 and consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**GENETICS/MD GENET 708 – METHODS AND LOGIC IN GENETIC ANALYSIS**

3 credits.

Contemporary issues in genetic, developmental, cell, and molecular biology are addressed in a discussion format. Invited speakers give research lectures and reading material is taken from the primary literature. The discussion focuses on evaluating genetic approaches to biological problems.

**Requisites:** Declared in Genetics graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**GENETICS/MD GENET/NURSING/PEDIAT 731 – ADVANCED CLINICAL GENETICS CONCEPTS**

3 credits.

An advanced course covering clinical genetic concepts including phenotype, genetic mechanisms, approach to diagnosis (medical, clinical and genetic testing protocols), and natural history (including management approaches). While specific for Genetic Counselor Studies students other healthcare providers are allowed if they have sufficient genetic background knowledge.

**Requisites:** Declared in Master of Genetic Counselor Studies program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GENETICS/BOTANY/ENTOM/ZOOLOGY 820 – FOUNDATIONS OF EVOLUTION**

2 credits.

Through reading and analysis of the primary literature, this course will explore some of the most important themes and debates that have permeated evolutionary biology over the last 50 years. Students will read key papers related to each controversial topic, will debate the pros and cons of competing viewpoints, and will reflect on the relevance of the issues to contemporary evolutionary biology. Students will also write a paper that analyzes one topic in more detail. This course is intended for graduate students who plan to specialize in evolutionary biology, broadly construed.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**GENETICS/BIOCHEM/BOTANY 840 – REGULATORY MECHANISMS IN PLANT DEVELOPMENT**

3 credits.

Molecular mechanisms whereby endogenous and environmental regulatory factors control development; emphasis on stimulus perception and primary events in the signal chain leading to modulated gene expression and cellular development; lecture.

**Requisites:** BIOCHEM 501 or 601 BOTANY 500 or Biocore 301 323**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**GENETICS/AN SCI/POP HLTH 849 – GENETIC EPIDEMIOLOGY**

3 credits.

This course will provide an introduction to genetic epidemiology. Topics will include a general overview of genetics and Mendelian and complex inheritance, as well as various elements of study design, including participant ascertainment; phenotype definition; biologic sample selection; genotyping, sequencing, and quality control; measurement of covariates, and choice of analytic methods. We will briefly discuss some of the original study designs and then focus on current study designs for the remainder of the class. Additional emerging topics will be briefly touched upon. Students will complete short homework assignments to enforce concepts learned during lectures, discuss journal articles, and prepare a very short grant application for the mid-term project. In the final weeks of class, students will work together to analyze data from a real genetic study, prepare tables, interpret the findings, and present their project to their peers.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**GENETICS 875 – SPECIAL TOPICS**

1-4 credits.

Special topics of current interest to graduate students.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**GENETICS 885 – ADVANCED GENOMIC AND PROTEOMIC ANALYSIS**

3 credits.

With the availability of genome sequences and high-throughput techniques, organismal physiology can now be examined on a global scale by monitoring the behavior of all genes or proteins in a single experiment. This course will present modern techniques in genomics and proteomics, with particular focus on analyzing the data generated by these techniques. Course material will cover genomic sequencing, comparative sequence analysis, phylogeny construction and phylogenomics, transcription factor motif discovery, DNA microarray analysis, techniques in mass spectrometry, proteomic screening methods, and protein-interaction network analysis. In addition to lecture time, the course includes computer lab where students get hands-on experience analyzing genomic and proteomic datasets. Students should have coursework in general statistics and intermediate or advanced genetics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**GENETICS/MD GENET/POP HLTH 888 – PUBLIC HEALTH GENOMICS**

1 credit.

Public health genomics uses knowledge gained from genetic and molecular research along with a consideration of ethical, legal, and social implications (ELSI) to prevent disease and improve the health of the population. Students enrolled in this course will be provided an introduction to public health genomics through a review of fundamental principles of genetics, followed by lectures and discussions on the use of genetic information in clinical and research settings and its implications for disease management and prevention. Students will also gain an awareness of policies that guide public health and will be able to discuss current ethical, legal, and social implications of these policies. These learning objectives will be met through readings and videos, lectures, and discussions of recent journal articles and current topics in public health genomics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017

**GENETICS/B M E/B M I/BIOCHEM/CBE/COMP SCI 915 – COMPUTATION AND INFORMATICS IN BIOLOGY AND MEDICINE**

1 credit.

Participants and outside speakers will discuss current research in computation and informatics in biology and medicine. This seminar is required of all CIBM program trainees.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GENETICS/AN SCI/DY SCI 951 – SEMINAR IN ANIMAL BREEDING**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**GENETICS/AGRONOMY/HORT 957 – SEMINAR-PLANT BREEDING**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GENETICS 990 – RESEARCH**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GENETICS 993 – SEMINAR IN GENETICS**

1 credit.

Sections deal with various aspects of genetics: Drosophila, maize, immunogenetics, developmental genetics, or other special topics. Students may enroll in two or more sections if they wish.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GEOGRAPHY (GEOG)****GEOG 101 – INTRODUCTION TO HUMAN GEOGRAPHY**

4 credits.

Human geographers explore socio-spatial relations, processes and representations of the world in which we live. This course engages economic, political, urban, socio-cultural and environmental geographic perspectives to investigate patterns and processes that have come to be associated with 'globalization'.

**Requisites:** Open to Fr**Course Designation:** Gen Ed - Communication Part B  
Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOG 104 – INTRODUCTION TO HUMAN GEOGRAPHY**

3 credits.

Human geographers explore socio-spatial relations, processes and representations of the world in which we live. This course engages economic, political, urban, socio-cultural and environmental geographic perspectives to investigate patterns and processes that have come to be associated with 'globalization'. This course does not carry Com-B credit. Stdts cannot receive cr for both GEOG 101 104

**Requisites:** Open to Fr.**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**GEOG/ENVIR ST 120 – INTRODUCTION TO THE EARTH SYSTEM**

3 credits.

Introduces students to how the Earth system works and what makes Earth livable. Through this course you will gain a deeper appreciation for how the atmosphere, oceans, life, and earth's surface interact to shape our local, regional and global landscapes. Many students take this course to fulfill their physical science requirement. Others use it as a gateway to majors and careers in Geography, Environmental Studies, and Environmental Science.

**Requisites:** Not open to students with credit for GEOG/ENVIR ST/ GEOG 127**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017



**GEOG/ATM OCN/ENVIR ST 121 – ATMOSPHERIC ENVIRONMENT AND SOCIETY**

2 credits.

Changing interactions between humans, other animals and plants, and the atmospheric environment, both in time and space.

**Requisites:** Open to Fr**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2009**GEOG/ENVIR ST 127 – PHYSICAL SYSTEMS OF THE ENVIRONMENT**

5 credits.

Climatic regimes, landforms, soils, waters and life forms at the earth's surface in terms of energy-transforming processes, locational patterns, and changes through time.

**Requisites:** Open to Freshmen not open to those with GEOG/ ENVIR ST 120, 123, 124, or 125 credit or ILS 132 credit**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOG/ENVIR ST 139 – LIVING IN THE GLOBAL ENVIRONMENT: AN INTRODUCTION TO PEOPLE-ENVIRONMENT GEOGRAPHY**

3-4 credits.

This course provides an exploration of the global and local nature of environmental problems facing us, including issues of climate change, food, energy, economic globalization, deforestation and land use change, biodiversity loss, resource scarcity and access, environmental justice, and population. Through group and individual work, this course considers how we should analyze and act on environmental problems as we confront the apparently daunting scale of such issues. The theme of this course is that what appear to be single global environmental problems are actually composed of many smaller context-specific and place dependent problems or conflicts. Through an interdisciplinary and geographic perspective, these can be understood and addressed at the scale of our lived lives.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOG 170 – OUR DIGITAL GLOBE: AN OVERVIEW OF GISCIENCE AND ITS TECHNOLOGY**

3 credits.

Non-specialist course providing an overview of the collection, representation and use of geospatial data. Introduces students to geospatial technologies like GPS, Google Earth, satellite imagine, and GIS, and provides a critical understanding of the strengths and limitations of spatial representations (e.g., maps, images).

**Requisites:** None**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOG 198 – DIRECTED STUDY**

1-2 credits.

Graded on a Cr/N basis; requires cons inst

**Requisites:** Open to Fr So.**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2013**GEOG 199 – DIRECTED STUDY**

1-2 credits.

Graded on a lettered basis; requires cons inst

**Requisites:** Open to Fr So.**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2004**GEOG/ENVIR ST/SOIL SCI 230 – SOIL: ECOSYSTEM AND RESOURCE**

3 credits.

Soils are fundamental to ecosystem science. A systems approach is used to investigate how soils look and function. Topics investigated include soil structure, biology, water, fertility, and taxonomy as well as the human impact on the soil environment.

**Requisites:** Not open to students with credits in Soil Sci 301**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017



**GEOG/HISTORY/LCA/POLI SCI/SOC 244 – INTRODUCTION TO SOUTHEAST ASIA: VIETNAM TO THE PHILIPPINES**

4 credits.

Southeast Asian history, religion, folklore and literatures, educational systems, and politics from the early classical states to contemporary social, literary, and political developments.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOG/HISTORY/LCA/POLI SCI/SOC 252 – THE CIVILIZATIONS OF INDIA-MODERN PERIOD**

4 credits.

Contemporary India society as a joint product of the classical heritage and world-wide movements toward nationalism; social and economic development.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEOG/HISTORY/POLI SCI/SLAVIC 253 – RUSSIA: AN INTERDISCIPLINARY SURVEY**

4 credits.

Comprehensive interdisciplinary survey of Russian civilization from its beginnings through the present day.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEOG/HISTORY/POLI SCI/SLAVIC 254 – EASTERN EUROPE: AN INTERDISCIPLINARY SURVEY**

4 credits.

Comprehensive interdisciplinary survey of East European culture, society, politics, and literature from its beginnings to the present day.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**GEOG/AFROAMER/ANTHRO/C&E SOC/HISTORY/LACIS/POLI SCI/SOC/SPANISH 260 – LATIN AMERICA: AN INTRODUCTION**

3-4 credits.

Latin American culture and society from an interdisciplinary perspective; historical developments from pre-Columbian times to the present; political movements; economic problems; social change; ecology in tropical Latin America; legal systems; literature and the arts; cultural contrasts involving the US and Latin America; land reform; labor movements; capitalism, socialism, imperialism; mass media.

**Requisites:** None**Course Designation:** Breadth - Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEOG/AFRICAN/AFROAMER/ANTHRO/HISTORY/POLI SCI/SOC 277 – AFRICA: AN INTRODUCTORY SURVEY**

4 credits.

African society and culture, polity and economy in multidisciplinary perspectives from prehistory and ancient kingdoms through the colonial period to contemporary developments, including modern nationalism, economic development and changing social structure.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOG 301 – GEOGRAPHY OF SOCIAL ORGANIZATION**

3 credits.

Culture, culture group, ethnicity, communication, and allied concepts as these relate to cultural geography.

**Requisites:** Not open to Fr**Course Designation:** Breadth - Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOG 302 – ECONOMIC GEOGRAPHY: LOCATIONAL BEHAVIOR**

4 credits.

Classic location theory with modern extensions. Examination of theoretical statements and selected empirical examples. Principles of economic regionalization and network analysis with emphasis on spatial implications of the economic development process.

**Requisites:** So st**Course Designation:** Breadth - Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2009

**GEOG/URB R PL 305 – INTRODUCTION TO THE CITY**

3-4 credits.

Investigates urbanization as a general process, as well as the resulting contemporary physical, social, cultural and political-economic forms of cities. As an ethnic studies class, emphasis will be placed on the history and current forms of spatial and social segregation of cities by race, class, ethnicity, and gender. The myriad ways that cities have addressed the tensions emerging from this history of spatial and social segregation will be highlighted. Further, emphasis will be placed on understanding the experiences of those most-affected by historical and continuing segregation.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOG/ENVIR ST 309 – PEOPLE, LAND AND FOOD: COMPARATIVE STUDY OF AGRICULTURE SYSTEMS**

3 credits.

Introduction to how and why humans have transformed natural landscapes around the world, including tropical deforestation. Exploration of different agricultural systems, and topics such as food security, land scarcity, bioenergy and the impacts of food production on the environment.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**GEOG 318 – INTRODUCTION TO GEOPOLITICS**

3 credits.

Introduction to the contemporary study of geopolitics, featuring the main concepts and research themes encountered in this field. Examine the formation of geopolitical images of the world, where these images come from, and how they have shaped our thinking and politics over time.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEOG 319 – ENVIRONMENTAL EVALUATION AND ADAPTATION**

3 credits.

The study of how human beings make sense of geographic reality; how they make worlds out of environments.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2008**GEOG/GEOSCI 320 – GEOMORPHOLOGY**

3 credits.

Principles and analysis of geomorphic processes and resulting land forms. Field trip.

**Requisites:** One of the following: GEOSCI 100, 101, 106, 109, 204, GEOG/ENVIR ST 120, 127**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEOG 321 – CLIMATOLOGY**

3 credits.

Elements and controls of climate and the distribution of world climates. Emphasis on regional dynamic climatology.

**Requisites:** GEOG/ENVIR ST 120, 121, 125, 127 or ILS 132 or Meteor 100 or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2010**GEOG/ATM OCN 323 – SCIENCE OF CLIMATE CHANGE**

3 credits.

This is a calculus-based treatment of climate system physics and the mechanisms of modern-day anthropogenic climate change. By the end of this course, students will understand: a. How solar radiation and rotating fluid dynamics determine the basic climate state; b. Mechanisms of natural variability and change in climate; c. Why anthropogenic climate change is occurring; and d. Which scientific uncertainties are most important to estimates of 21st century change. Not open to students who have enrolled in ATM OCN 425

**Requisites:** PHYS 103, 201 or 207; and MATH 217, 221 or 275.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016

**GEOG/ENVIR ST 325 – ANALYSIS OF THE PHYSICAL ENVIRONMENT**

4 credits.

Selected associations of natural and human environments illustrative of the broad principles of physical geography. Practical application of data collection and the use of laboratory and field methods to Wisconsin examples employing quantitative and nonquantitative analytical methods; field trips; lab section.

**Requisites:** Any intro crse in phy geog or phy geol or meteor or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**GEOG/GEOSCI 326 – LANDFORMS-TOPICS AND REGIONS**

3 credits.

Emphasis on natural and human processes that control the morphology of the land and its waterways. When taught by Knox, major emphasis on surface water hydrology, erosion, sedimentation, and physical characteristics of streams and rivers.

**Requisites:** Intro phy geog or phy geosci crse, or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**GEOG 329 – LANDFORMS AND LANDSCAPES OF NORTH AMERICA**

3 credits.

Regional variation of landforms and physical landscapes in North America; processes and forms that give character to physiographic regions.

**Requisites:** GEOG/ENVIR ST 120 or 127 or Geol 100 or 101 or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**GEOG/ATM OCN/ENVIR ST 332 – GLOBAL WARMING: SCIENCE AND IMPACTS**

3 credits.

Climate change is underway and will continue into the foreseeable future. This course offers a fundamental understanding of how and why global warming is happening, and what to expect in the future. Together, we will investigate and discuss the evidence for change, the science that explains these observations, predicted impacts on humans and ecosystems, and the societal debate over proposed solutions. Freshmen permitted only with consent of instructor

**Requisites:** Geog/IES 120 or 127 or Atm Ocn 100 or equivalent recommended.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEOG/ATM OCN/ENVIR ST/GEOSCI 335 – CLIMATIC ENVIRONMENTS OF THE PAST**

3 credits.

Climatic change at timescales from the last 1,000,000 years to the last 1000 years. Examines how climate variability arises from interplay between external forcings, feedbacks within the earth system, and (more recently) human activity.

**Requisites:** ENVIR ST/GEOG/ENVIR ST 120, ENVIR ST/GEOG/ENVIR ST 127, or ATM OCN 100

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOG/ENVIR ST 337 – NATURE, POWER AND SOCIETY**

3 credits.

Explores the links between nature, power and society in today's world. The course considers the complex relationships between humans and the earth's resources, including food, energy, physical materials, water, biota, and landscapes; it considers issues linked to population and scarcity, resource tenure, green consumerism, political economy, environmental ethics, risks and hazards, political ecology, and environmental justice. Not open to students who took Geog/Env 139 in 2010-11, 2011-12 or 2012-13.

**Requisites:** Sophomore standing.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**GEOG/BOTANY 338 – ENVIRONMENTAL BIOGEOGRAPHY**

3 credits.

This course will explore how physical and biological factors affect the distribution of terrestrial biomes, ecosystem types, and biodiversity; as well as the role of disturbance and recent human activities on differences in past and modern day species distributions.

**Requisites:** GEOG/ENVIR ST 120, 127 or consent of instructor

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOG/ENVIR ST 339 – ENVIRONMENTAL CONSERVATION**

4 credits.

Examines major environmental conservation approaches in the U.S. and developing countries and how they are influenced by sociopolitical factors, cultural values and scientific understandings of nature. Historical and contemporary cases are explored with emphasis on biodiversity and climate change issues.

**Requisites:** So st

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOG 340 – WORLD REGIONS IN GLOBAL CONTEXT**

3 credits.

Survey of development and change within each of the world's regions (e.g., Africa, Southeast Asia). Attention devoted to environment and society; history, economy, and demographic change; culture and politics; future challenges; key actors. Online course.

**Requisites:** Sophomore standing; not open to students who have taken GEOG 140

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOG 342 – GEOGRAPHY OF WISCONSIN**

3 credits.

Overview of the physical and human geography of Wisconsin, with an emphasis on the physical, historical, and cultural processes that shaped the Badger State.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**GEOG 344 – THE AMERICAN WEST**

3 credits.

Regional geography of Western United States: Natural and human characteristics, landscape features, land use issues, perception of area as region.

**Requisites:** Not open to Freshmen

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOG 348 – LATIN AMERICA**

4 credits.

A topical and historical survey of the cultural ecology and human geography of Middle America and South America.

**Requisites:** So st

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEOG 349 – EUROPE**

3 credits.

A topical overview of people-environment interaction, migration, culture, urbanization, political organization and integration.

**Requisites:** So st

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**GEOG 353 – RUSSIA AND THE NIS-TOPICAL ANALYSIS**

3 credits.

**Requisites:** So st

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**GEOG 355 – AFRICA, SOUTH OF THE SAHARA**

3 credits.

Physical and human distributions and interrelationships, with emphasis on the spatial processes and patterns of modernization.

**Requisites:** So st

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**GEOG 358 – HUMAN GEOGRAPHY OF SOUTHEAST ASIA**

3 credits.

This survey course is designed to introduce intermediate undergraduate students to the Human Geography of Southeast Asia, including the basic geography and history of the region, important political and theoretical issues, and policies and positionings of relevance for understanding the spatiality of the region, including the ways that ethnicity and indigeneity are playing out in Southeast Asia and amongst Southeast Asians in the USA.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEOG 359 – AUSTRALIA: ENVIRONMENT AND SOCIETY**

3 credits.

An introduction to the human and environmental geography of Australia. Australia is a settler country, the scene of indigenous genocide, a former English colony, a mythical unknown, a biophysical puzzle, home to a startling diversity of life, a cradle of modern democracy, and a powerful industrial economy with a rich resource base. It thus serves in many ways as a mirror for the US - even matching the US roughly in size, if not in population. The two countries share many elements of a common history and biogeography and yet the human and environmental geographies of the two countries have traced very different paths into the modern world.

This course provides a survey of Australian geology, ecology, society or culture. It will include weekly check-ins with current events in Australia and exercises that connect students to current resource management problems using Google Earth and other tools.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEOG 360 – QUANTITATIVE METHODS IN GEOGRAPHICAL ANALYSIS**

4 credits.

Application of descriptive and inferential statistics to geographical problems.

**Requisites:** So st; completion of QRA**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**GEOG 370 – INTRODUCTION TO CARTOGRAPHY**

4 credits.

A broad introduction to cartography emphasizing the theory and practice of map-making. Topics include the basics in mapping (e.g., scale, spatial reference systems, projections), data acquisition, key techniques for thematic mapping, and principles of cartographic abstraction and design.

**Requisites:** Sophomore standing or consent of instructor**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOG/ENVIR ST/F&W ECOL/G L E/GEOSCI/LAND ARC 371 – INTRODUCTION TO ENVIRONMENTAL REMOTE SENSING**

3 credits.

Introduction to the Earth as viewed from above, focusing on use of aerial photography and satellite imagery to study the environment. Includes physical processes of electromagnetic radiation, data types and sensing capabilities, methods for interpretation, analysis and mapping, and applications.

**Requisites:** MATH 114 Sophomore standing**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOG/ENVIR ST/F&W ECOL/G L E/GEOSCI/LAND ARC 372 – INTERMEDIATE ENVIRONMENTAL REMOTE SENSING**

3 credits.

Examines intermediate-level concepts in information extraction, data processing and radiative transfer relevant to remote sensing of the environment. Includes transforms, image correction, classification algorithms and change detection, with emphasis on applications for land use planning and natural resource management.

**Requisites:** Envir St 301 or consent of instructor, sophomore standing**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**GEOG/CIV ENGR/ENVIR ST 377 – AN INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS**

4 credits.

Design, implementation and use of automated procedures for storage, analysis and display of spatial information. Covers data bases, information manipulation and display techniques, software systems and management issues. Case studies. Meets with Civil Environmental Engineering 357.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017



**GEOG 378 – INTRODUCTION TO GEOCOMPUTING**

4 credits.

Introduction to scripting for Geographic Information Science. Geoprocessing with open-source GIS utilities. Python scripting with ArcGIS and open-source libraries.

**Requisites:** GEOG/CIV ENGR/ENVIR ST 377 or equivalent (may be taken concurrently)

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOG 399 – INDEPENDENT STUDY**

1-3 credits.

Designed to provide between 1 and 3 credits for independent study in Geography under direct guidance of a faculty member. It is designated for study at the intermediate level, meaning that it will be appropriate for students' initial exploration of an area of scholarship in Geography through laboratory, field, or literary study.

**Requisites:** Consent of instructor

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**GEOG 401 – SEMINAR**

3 credits.

Exploration and analysis of a topic in human geography, including themes involving location analysis, regional and global studies, space and place, religion and morality, and people-environment linkages.

**Requisites:** Appropriate intermediate level course, or cons inst

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2009

**GEOG/GEOSCI 420 – GLACIAL AND PLEISTOCENE GEOLOGY**

3 credits.

Principles, characteristics and work of glaciers; events of the Pleistocene. Field trip.

**Requisites:** GEOSCI 100, 101, 106 or 109 or GEOG/ENVIR ST 120

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEOG/C&E SOC/ENVIR ST 434 – PEOPLE, WILDLIFE AND LANDSCAPES**

3 credits.

This course explores the relationship between humans and wildlife amidst diverse landscapes, both historic and contemporary, tropical and temperate. We study how humans shape wild animal populations by modifying physical environments, and by hunting, domesticating and introducing species.

**Requisites:** Geog/Envir St 339

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEOG/ENVIR ST 439 – US ENVIRONMENTAL POLICY AND REGULATION**

3-4 credits.

This course covers a broad cross-section of American environmental policy by focusing on specific statutes and policy arenas. In this course we will survey the basic elements of American environmental policy and regulation with a particular focus on the specific people, sites and scales at which environmental decision-making happens through primary-source case material. Understanding environmental outcomes in a complex society depends on observing both the structure of regulations and the geographic and social context in which such regulations emerge. This course will maintain a dual focus on (a) the legal and regulatory aspects of environmental regulation and (b) the specific geographic and social features of actual cases in which regulations and policy are used.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**GEOG/ENVIR ST/HISTORY 460 – AMERICAN ENVIRONMENTAL HISTORY**

4 credits.

Survey of interactions among people and natural environments from before European colonization to present. Equal attention to problems of ecological change, human ideas, and uses of nature and history of conservation and environmental public policy.

**Requisites:** So st

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**GEOG/ENVIR ST/HISTORY 469 – THE MAKING OF THE AMERICAN LANDSCAPE**

4 credits.

Surveys the historical geography and environmental history of the United States by tracing the evolution of the American landscape from precolonial times to the present, with special emphasis on teaching students skills they can use to interpret landscape history themselves.

**Requisites:** Sophomore standing or one course in HISTORY, GEOG or ENVIR ST

**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**GEOG 475 – TOPICS IN GEOGRAPHY**

1-4 credits.

Subject matter, credits and prerequisites vary.

**Requisites:** Varies

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**GEOG 500 – QUALITATIVE STRATEGIES IN GEOGRAPHY**

3 credits.

This seminar course surveys qualitative research and methods in geography, including the human subjects review process, research ethics, preparing for fieldwork, participant observation, interviewing, focus groups, filmic experiences, archival research, participatory action research, analyzing field materials and writing styles in qualitative research.

**Requisites:** Students must have junior, senior or graduate standing to enroll for this class.

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOG 501 – SPACE AND PLACE: A GEOGRAPHY OF EXPERIENCE**

3 credits.

Explore the concepts of space and place from the perspective of learning and everyday experience. Examines how space and place emerge out of fundamental human needs, experiences, and ways of thinking.

**Requisites:** Jr st

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEOG/URB R PL 503 – RESEARCHING THE CITY: QUALITATIVE STRATEGIES**

3 credits.

Explores, and applies, qualitative methods in the field of urban geography. An introduction to debates around the analysis and interpretation of qualitative data is provided, grounded in concrete urban research. Participation in a three-day field course is required.

**Requisites:** Jr st

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**GEOG/URB R PL 505 – URBAN SPATIAL PATTERNS AND THEORIES**

3 credits.

Various urban empirical regularities and theories which explain them.

**Requisites:** GEOG/URB R PL 305 or consent of instructor

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**GEOG/URB R PL 506 – HISTORICAL GEOGRAPHY OF EUROPEAN URBANIZATION**

3 credits.

Historical geography of urban development in Europe from classical times to the post-World War II era, with emphasis on changes in built environment, public space and infrastructure, land use, and urban systems.

**Requisites:** Jr st

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**GEOG 508 – LANDSCAPE AND SETTLEMENT IN THE NORTH AMERICAN PAST**

3 credits.

Historical geography of North American settlement patterns, cultural landscapes, regional identity and heritage.

**Requisites:** Junior standing

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**GEOG 510 – ECONOMIC GEOGRAPHY**

4 credits.

Theoretical aspects of spatial economic distributions and locational analysis.

**Requisites:** Junior standing**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2014**GEOG 518 – POWER, PLACE, IDENTITY**

3 credits.

Advanced political geography course that explores reconceptualizations of power, place, and identity, as well as the interactive forces at work that continually reshape place-making and the inter-related processes of identification and differentiation.

**Requisites:** So St**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOG/GEOSCI 523 – QUATERNARY VEGETATION DYNAMICS**

3 credits.

Geographic responses of plant species and terrestrial ecosystems to late-Quaternary environmental change, particularly changes in climate and carbon dioxide. Quaternary vegetation dynamics are relevant to understanding vegetational responses to the 21st-century climate change. Laboratory section emphasizes multivariate data analysis and vegetational modeling.

**Requisites:** Jr st GEOG/ENVIR ST 120/127 or equiv**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**GEOG/GEOSCI 524 – ADVANCED LANDFORM GEOGRAPHY**

3 credits.

Purposes, methods, and content of analysis of landforms, with emphasis on quantitative descriptive regional variation, and functional relationships.

**Requisites:** Cons inst or Jr st**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**GEOG/SOIL SCI 525 – SOIL GEOMORPHOLOGY**

3 credits.

Soil development as related to landscape throughout the Quaternary; focusing on the relationship of soils to climate and vegetation, landscape evolution, and time; principles of soil stratigraphy; case histories of soil geomorphic studies; field trips.

**Requisites:** Soil Sci 325 or Geog/Soil Sci 431; an intermed level crse in geomorphology; or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**GEOG/SOIL SCI 526 – HUMAN TRANSFORMATIONS OF EARTH SURFACE PROCESSES**

3 credits.

This course takes an earth systems approach to explore the role of human societies in shaping earth surface processes from local to global scales. We address how alterations to our landscapes and waterways affect biological, physical and chemical interactions among our biosphere, geosphere, hydrosphere and atmosphere. We discuss methods used to distinguish the "human impact" from background variability.

**Requisites:** Junior standing or GEOG/ENVIR ST/GEOG 120**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**GEOG/GEOSCI 527 – THE QUATERNARY PERIOD**

3 credits.

Principles of Quaternary studies emphasizing terrestrial records and paleoecology of the past two million years and comparisons with the deep ocean record and models of climatic change.

**Requisites:** 1 intermed-level course in physical geog or geosci; or consent of instructor**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2012

**GEOG/ATM OCN/ENVIR ST 528 – PAST CLIMATES AND CLIMATIC CHANGE**

3 credits.

Climatic change throughout geologic time, especially in the last 10 millennia; mechanisms of change, evidence, and criteria, paleogeography and paleoclimatology, climate models.

**Requisites:** Jr st or one year calculus-based college physics or introduction to weather and climate; or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**GEOG/ENVIR ST 534 – ENVIRONMENTAL GOVERNANCE: MARKETS, STATES AND NATURE**

3 credits.

This class is designed to help students answer real-world questions of how the environment is managed and governed through state policy, economics, and social institutions. We will cover strategies within and outside of the formal institutions of government, and extend the discussion to the commodification of nature and the use of science to understand and govern the environment. The last third of the class will consist of students engaging with case studies of environmental governance in water, carbon, species, and urban sustainability.

**Requisites:** GEOG/ENVIR ST/GEOG 339, GEOG/ENVIR ST/GEOG 439, or FW ECOL/ENVIR ST/F&W ECOL 515

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**GEOG/ENVIR ST 537 – CULTURE AND ENVIRONMENT**

4 credits.

Geographic approaches to culture-nature relationships, including human perception of, use of, and adaptation to the physical environment, with emphasis on traditional subsistence systems; selected topics from contemporary and historical sources.

**Requisites:** Geog/IES 339 or equiv

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEOG 538 – THE HUMID TROPICS: ECOLOGY, SUBSISTENCE, AND DEVELOPMENT**

4 credits.

Description and analysis of humid-tropical ecosystems, with emphasis on the relationships, production potential, and human modification of biotic resources.

**Requisites:** Jr st

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**GEOG/ENVIR ST 557 – DEVELOPMENT AND ENVIRONMENT IN SOUTHEAST ASIA**

3 credits.

Examines the political, socio-cultural, economic and ecological aspects of contemporary development and human-environment relations in mainland Southeast Asia, applying a critical and theoretically informed perspective, and focusing largely on rural issues.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOG 560 – ADVANCED QUANTITATIVE METHODS**

3 credits.

Selected topics in the analysis of spatial distributions with emphasis on multivariate techniques.

**Requisites:** GEOG 360 or equiv; Jr st

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEOG 565 – COLLOQUIUM FOR UNDERGRADUATE MAJORS**

3 credits.

Orientation to geography as a scholarly discipline; its development, objectives, essential concepts, methods of investigation, institutions, opportunities, problems, and trends.

**Requisites:** Geog majors or cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOG 566 – HISTORY OF GEOGRAPHIC THOUGHT**

3 credits.

An analysis of the development and significance of basic geographic concepts and theories. Major emphasis on concepts of place, spatial relations, landscape, and human-environment relations.

**Requisites:** Junior standing**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**GEOG 572 – GRAPHIC DESIGN IN CARTOGRAPHY**

3-4 credits.

Study of the map as a graphic communication, the technical and perceptual aspects of its organization, symbolic coding, color and lettering.

**Requisites:** GEOG 370 or consent of instructor**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOG 574 – GEOSPATIAL DATABASE DESIGN AND DEVELOPMENT**

4 credits.

Introduces the basic concepts, techniques and methodologies for designing and implementing a spatial database. The course prepares students for professional work as a GIS designer, analyst, specialist or researcher who uses spatial databases to store, manage and manipulate digital geographic data. Students learn how to design conceptual spatial database models, and how to implement them within specific spatial data management systems (DBMS). The course covers the basics of the SQL database language and the latest developments in database systems (e.g. NoSQL database) for managing and mining spatial big data such as social media datasets and GPS trajectories.

**Requisites:** GEOG/CIV ENGR/ENVIR ST 377**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOG 575 – INTERACTIVE CARTOGRAPHY & GEOVISUALIZATION**

4 credits.

Examines emerging topics related to the design of user interfaces for manipulating maps, focusing on new cartographic challenges in Interactive Cartography, Geographic Visualization, and Geovisual Analytics and drawing upon relevant insight in Human-Computer Interaction, Information Visualization, and Usability Engineering.

**Requisites:** GEOG 370 and Comp Sci 302, or consent of instructor**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEOG 576 – GEOSPATIAL WEB AND MOBILE PROGRAMMING**

4 credits.

This course is designed to cover the programming concepts and skills for understanding construction and implementation of high quality spatial web portal and mobile Apps to support geospatial data access, analysis, sharing, and synthesis over the internet. Previous java programming knowledge is not essential, but basic programming experience is required.

**Requisites:** Graduate standing OR one introductory GIS course (GEOG 170, GEOG 370 or GEOG/ENVIR ST/CIV ENGR/GEOG 377) and one programming course (GEOG 378, COMP SCI 301, COMP SCI 302, or COMP SCI 367)**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2017**GEOG 577 – ENVIRONMENTAL MODELING WITH GIS**

3 credits.

This course focuses on environmental modeling using geographic information systems. The course provides an overview of physical environmental processes and focuses on discussion of the GIS-techniques used to parameterize these processes. The discussion will be illustrated by widely used GIS-based environmental models.

**Requisites:** GEOG/CIV ENGR/ENVIR ST 377 or equiv GEOG/ ENVIR ST 325 or equiv**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2009

**GEOG 578 – GIS APPLICATIONS**

4 credits.

Application and use of GIS techniques in physical and human geography. Includes an introduction to a generic framework of GIS applications, case studies, and student projects. Cases range from urban and regional geography, to marketing geography, and to physical and environmental geography.

**Requisites:** GEOG/CIV ENGR/ENVIR ST 377 370, or equiv**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEOG 579 – GIS AND SPATIAL ANALYSIS**

4 credits.

Principles and algorithms for spatial analysis in geographic information systems. A theoretical and practical examination of analytical methods used in GIS, including point, line and polygon processing, interpolation, smoothing, spatial overlay and query, network analysis, terrain analysis, and classification.

**Requisites:** GEOG/CIV ENGR/ENVIR ST 377 or equiv, GEOG 360, or consent of instructor**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOG 602 – INTERNSHIP**

1-2 credits.

Students may earn no more than two internship credits toward the 30-40 credits in geography.

**Requisites:** Stdts should be declared Undergrad majors or Grad stdts in geography**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GEOG 675 – SPECIAL TOPICS IN GEOGRAPHY**

3 credits.

Topics vary.

**Requisites:** Jr, Sr, or Grad st, or cons inst**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GEOG 676 – SPECIAL TOPICS IN GEOGRAPHY**

3 credits.

Topics vary.

**Requisites:** Jr, Sr, or Grad st, or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**GEOG 681 – SENIOR HONORS THESIS**

2-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOG 682 – SENIOR HONORS THESIS**

2-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEOG 691 – SENIOR THESIS**

2-3 credits.

**Requisites:** Sr st and cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**GEOG 692 – SENIOR THESIS**

2-3 credits.

**Requisites:** Sr st and cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEOG 698 – DIRECTED STUDY**

1-3 credits.

Cr/N. Graded on a Cr/N basis; requires cons inst

**Requisites:** Jr or Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016

**GEOG 699 – DIRECTED STUDY**

1-3 credits.

Graded on a lettered basis; requires cons inst

**Requisites:** Jr or Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GEOG/POLI SCI/URB R PL 742 – INTERNATIONAL DEVELOPMENT PLANNING THEORY**

3 credits.

Provides students with a historical and theoretical foundation for critical thinking about international development planning.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2008**GEOG 765 – GEOGRAPHICAL INQUIRY AND ANALYSIS: AN INTRODUCTION**

1 credit.

Geographic perspectives and analyses: history of the discipline, issues and research frontiers, interests and perspectives of Madison faculty, structure of graduate study in the department, research facilities and opportunities.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOG 766 – GEOGRAPHICAL INQUIRY AND ANALYSIS: TECHNIQUES**

1-3 credits.

Engaging in geographic research: analysis of successful proposals and published papers and books; different approaches to geographic research; writing of proposals for students' own research.

**Requisites:** Grads: 3 cr, undergrads: 1 cr; or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEOG 777 – CAPSTONE IN GIS DEVELOPMENT**

4 credits.

In this course students will work through a set of practical and challenging cases in GIS which require programming and other GIS development skills (such as geospatial algorithm development and implementation) to complete. These cases cover the wide spectrum of GIS development projects in the GIS professions ranging from GIS data management, advanced spatial analysis, spatial database development and web/mobile programming, to cartography/geovisualization. Through these activities students will learn how to integrate the skills they learned from other courses into a GIS development project.

**Requisites:** GEOG 378, 572, 574, 575, 576, and 579**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOG 778 – PRACTICUM IN GIS DEVELOPMENT**

4 credits.

The course learning objectives are: 1) To develop student's ability to conceive real world GIS development projects and design a plan for solving the projects; 2) To provide student the practical experience on managing GIS development projects; 3) To develop student's capacity to solve GIS development problems independently. Students taking this class will achieve these objectives in three stages. Stage 1: The students will be given a GIS development problem which will require them to define the context and the scope of a project to address this problem, to identify the key issues in solving this problems, and to develop implementation plan as well as to implement the plan. In this stage the students will be trained on their independence on developing strategies and solutions to the problems (issues) as they arise during the process of solving a GIS development project. Stage 2: The student is first asked to conceive, in consultation with the instructor(s), a project requiring substantial amount of GIS programming and development, and then to define the scope and to develop the implementation plan as well as to implement the plan for solving this GIS development project. During this stage, the students are trained to derive GIS development projects from real world situation on their own and solve the GIS development problems on their own. The instructors will act as the clients as well as technical advisors to the projects. Stage 3; students will summarize their experiences by reflections on various aspects of developing and implementing the above two projects to assess the learning outcomes for this classes and to provide recommendations for people who engage in this type of GIS development projects.

**Requisites:** GEOG 378, 572, 574, 575, 576, and 579**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOG 799 – INDEPENDENT READING**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016



**GEOG 900 – SEMINAR IN GEOGRAPHY**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**GEOG 901 – SEMINAR IN CULTURAL GEOGRAPHY**

2-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GEOG 918 – SEMINAR IN POLITICAL GEOGRAPHY**

2-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**GEOG 920 – SEMINAR IN PHYSICAL GEOGRAPHY**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GEOG 930 – SEMINAR IN PEOPLE-ENVIRONMENT GEOGRAPHY**

2-3 credits.

Analysis of people-nature links, including environmental issues, natural resources, and attitudes toward nature. Topics vary with each offering.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**GEOG/HISTORY 932 – SEMINAR IN AMERICAN ENVIRONMENTAL HISTORY**

3 credits.

Surveys recent and classic works on American environmental history to introduce students to the methods and historiography of the field.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOG/AGRONOMY/ATM OCN/BOTANY/ENTOM/ENVIR ST/F&W ECOL/ZOOLOGY 953 – INTRODUCTION TO ECOLOGY RESEARCH AT UW-MADISON**

1-2 credits.

This seminar course will introduce new graduate students to the diversity of ecologists across the UW-Madison campus. Course meetings will include discussions of key topics in professional development, research presentations by faculty members, and discussions of assigned papers with senior graduate students.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOG 970 – SEMINAR IN GEOGRAPHIC INFORMATION SCIENCE**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**GEOG/ATM OCN/BOTANY/ENVIR ST/F&W ECOL/GEOSCI/ZOOLOGY 980 – EARTH SYSTEM SCIENCE SEMINAR**

1 credit.

Topics in earth system science. Emphasis on the coupling between atmospheric, oceanic and land surface systems, involving physical geochemical and biological processes, and including interactions with human systems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**GEOG/A A E/ANTHRO/C&E SOC/HISTORY/LACIS/POLI SCI/PORTUG/SOC/SPANISH 982 – INTERDEPARTMENTAL SEMINAR IN THE LATIN-AMERICAN AREA**

1-3 credits.

Interdisciplinary inquiry in Latin American society and culture.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GEOG/AFRICAN/ANTHRO/ECON/HISTORY/POLI SCI 983 – INTERDEPARTMENTAL SEMINAR-AFRICAN STUDIES**

3 credits.

Interdisciplinary inquiry in African society and culture.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016

**GEOG 990 – RESEARCH AND THESIS**

1-9 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GEOG 999 – INDEPENDENT WORK**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GEOLOGICAL ENGINEERING (G L E)****G L E 1 – COOPERATIVE EDUCATION PROGRAM**

1 credit.

Work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career in industry.

**Requisites:** So st**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**G L E 171 – INTRODUCTION TO GEOLOGICAL ENGINEERING**

1 credit.

Comprehensive introduction to engineering applications of earth sciences. Exploitation and management of geologic resources; mitigation of geologic hazards such as landslides and earthquakes; abatement of environmental problems such as land and water pollution; design of surface and underground excavations; principal methods of geological engineering.

**Requisites:** Open to Fr**Repeatable for Credit:** No**Last Taught:** Spring 2017**G L E/CIV ENGR 291 – PROBLEM SOLVING USING COMPUTER TOOLS**

3 credits.

Introduction to engineering computations with emphasis on computer tools and computer based measurement, data collection, and processing. Tools will include computer aided drafting, spreadsheets, other engineering computation tools, and hardware and software for laboratory and spatial measurements.

**Requisites:** EMA 202 or 304**Repeatable for Credit:** No**Last Taught:** Fall 2017**G L E/CIV ENGR 330 – SOIL MECHANICS**

4 credits.

Basic principles of soil mechanics and fundamentals of application in engineering practice; soil composition and texture; classification; permeability and seepage; consolidation; settlement; shear strength; lateral earth pressures; fundamentals of retaining structures, shallow and deep foundations, slope stability; sub-surface exploration; lab.

**Requisites:** EMA 303 or 304 or con reg**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**G L E/GEOSCI 350 – INTRODUCTION TO GEOPHYSICS: THE DYNAMIC EARTH**

3 credits.

Methods of geophysics applied to earth structure and plate tectonics. Principles of seismology, gravity, geodesy, magnetism and heat flow.

**Requisites:** MATH 221**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**G L E/GEOSCI 360 – PRINCIPLES OF MINERALOGY**

3 credits.

Minerals, their physical and chemical properties, crystallography, and geologic significance.

**Requisites:** 1 sem college chem or concurrent registration**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**G L E/GEOSCI 370 – ELEMENTARY PETROLOGY**

3 credits.

Igneous, sedimentary and metamorphic rocks, studied in hand sample and thin section.

**Requisites:** GEOSCI/G L E 360**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**G L E/ENVIR ST/F&W ECOL/GEOG/GEOSCI/LAND ARC 371 – INTRODUCTION TO ENVIRONMENTAL REMOTE SENSING**

3 credits.

Introduction to the Earth as viewed from above, focusing on use of aerial photography and satellite imagery to study the environment. Includes physical processes of electromagnetic radiation, data types and sensing capabilities, methods for interpretation, analysis and mapping, and applications.

**Requisites:** MATH 114 Sophomore standing**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**G L E/ENVIR ST/F&W ECOL/GEOG/GEOSCI/LAND ARC 372 – INTERMEDIATE ENVIRONMENTAL REMOTE SENSING**

3 credits.

Examines intermediate-level concepts in information extraction, data processing and radiative transfer relevant to remote sensing of the environment. Includes transforms, image correction, classification algorithms and change detection, with emphasis on applications for land use planning and natural resource management.

**Requisites:** Envir St 301 or consent of instructor, sophomore standing**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**G L E 401 – SPECIAL TOPICS IN GEOLOGICAL ENGINEERING**

1-3 credits.

Course will focus on a variety of topics in the field of geological engineering.

**Requisites:** Jr st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**G L E/GEOSCI 431 – SEDIMENTARY & STRATIGRAPHY LAB**

1 credit.

Field- and specimen-based laboratory course in Sedimentology Stratigraphy; emphasizes qualitative and quantitative description and interpretation of sediments and sedimentary deposits.

**Requisites:** GEOSCI 204, GEOSCI/G L E 360, GEOSCI/G L E 370**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**G L E/CIV ENGR/ENVIR ST/GEOSCI 444 – PRACTICAL APPLICATIONS OF GPS SURVEYING**

2 credits.

Global positioning system surveying for field applications. Signals. Coordinate systems. Datums. Cartographic projections. Satellite orbits. Choosing hardware. Strategies for data collection and analysis. Assessing uncertainty. Geocoding satellite images. Integrating data with Geographic Information Systems. Emerging technologies.

**Requisites:** MATH 210, 211, 221 or equiv or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**G L E/GEOSCI 455 – STRUCTURAL GEOLOGY**

4 credits.

Principles of rock deformation, structures in layered rocks, structural analysis, intrusive structures. Lab: three-dimensional problems involving structural concepts; field trip. GEOSCI/G L E 360 and 370 recommended or concurrent registration

**Requisites:** GEOSCI 202, 204, one term of physics.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**G L E/GEOSCI/M S & E 474 – ROCK MECHANICS**

3 credits.

Classification of rock masses, stress and strain in rock, elastic and time-dependent behavior of rock, state of stress in rock masses, failure mechanisms, lab testing, geological and engineering applications.

**Requisites:** EMA 201 or 214, 304, or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**G L E/GEOSCI/M S & E 475 – ROCK MECHANICS APPLICATIONS TO ENVIRONMENTAL PROBLEMS**

3 credits.

Classification of rock for specific engineering purposes, in situ testing, applications to surface mining and slope stability, applications to underground mining and excavations, applications to waste disposal and underground storage, applications to novel methods of in situ mining, applications to earthquakes.

**Requisites:** MSE 474 or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2007

**GLE 476 – FIELD METHODS IN GEOLOGICAL ENGINEERING**

3 credits.

Methods of site investigations for the rational design of structures in rocks and soil. Field reconnaissance, exploratory drilling, in situ testing, during and post-excavation monitoring.

**Requisites:** CEE 330 Geol Engr 474, or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2010

**GLE 478 – INTRODUCTION TO GEOLOGICAL ENGINEERING DESIGN**

1 credit.

Review of geological engineering design projects. Discussion of design processes, team approaches, and ethics in geological engineering practice. Preparation of a project proposal, data gathering and planning.

**Requisites:** GLE 475 or senior standing in GLE, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**GLE 479 – GEOLOGICAL ENGINEERING DESIGN**

3 credits.

A practical problem in an area of geological engineering (such as development of a geologic resource or design of a structure in soil and/or rock) is selected and then the principles and processes of design and analysis are applied to the solution of the problem.

**Requisites:** Sr st cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GLE 489 – HONORS IN RESEARCH**

1-3 credits.

Undergraduate honors research projects supervised by faculty members. Not available for graduate credit.

**Requisites:** Admission to the GLE honors in research program

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GLE/CIV ENGR 530 – SEEPAGE AND SLOPES**

3 credits.

Practical aspects of seepage effects and ground water flow. Stability of natural and man-made slopes under various loading conditions. Design and construction of earth dams and embankments. Flow net and its use; wells; filters; total and effective stress methods of slope analysis; selection of pertinent soil parameters.

**Requisites:** Civ Engr 330

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GLE/CIV ENGR 531 – RETAINING STRUCTURES**

3 credits.

Rigid and flexible earth retaining structures. Analysis and design of retaining walls, anchored bulkheads, braced cuts, tie back cuts, mechanically stabilized earth, and slurry trench walls. Lateral earth pressure due to soil, water, surcharge loads, etc., local and overall stability and the design of anchorage and bracing systems.

**Requisites:** Civ Engr 330; Comp Sci 310 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**GLE/CIV ENGR 532 – FOUNDATIONS**

3 credits.

Shallow and deep foundations. Analysis and design of footings, mats, piers and piles, and related fill and excavation operations. Consolidation settlement, time rate of settlement, stress distribution, elastic (immediate) settlement, load bearing capacity; methods to reduce settlements and increase shear strength; the selection of a foundation system.

**Requisites:** Civ Engr 330 Comp Sci 310 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**GLE/GEOSCI 594 – INTRODUCTION TO APPLIED GEOPHYSICS**

3 credits.

Survey of applied geophysics, including seismic refraction, seismic reflection, electrical resistivity, gravity, and magnetics methods. The course will cover the basic physics of each method and modeling techniques and field procedures.

**Requisites:** 1 yr of college calc, 1 yr of college physics

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GLE/GEOSCI 595 – FIELD METHODS IN APPLIED AND ENGINEERING GEOPHYSICS**

1 credit.

The application of geophysical field methods for delineating near-surface features and/or structures as applied to engineering, environmental and exploration problems.

**Requisites:** 1 yr coll calc, 1 yr coll physics or EMA 201, 202 PHYSICS 202, prev or con reg in GLE/Geoscience 594

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**G L E 597 – BOREHOLE GEOPHYSICS**

3 credits.

Examines the use of borehole geophysical techniques to characterize geological materials, structures, and formation fluids in the region surrounding a well bore. Applications include formation evaluation for oil exploration, hydrologic, environmental, and mineral deposit characterization, and geoengineering analysis.

**Requisites:** 1 yr coll calc, 1 yr coll physics or EMA 201, 202 PHYSICS 202, GLE/Geology 594

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**G L E/GEOSCI 627 – HYDROGEOLOGY**

3-4 credits.

Mathematical treatment of the physical principles governing the flow of groundwater; emphasis on well hydraulics and flow system analysis; problem sets and class projects.

**Requisites:** Intro course in geol, Jr st MATH 221 or equiv

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**G L E/GEOSCI 629 – CONTAMINANT HYDROGEOLOGY**

3 credits.

Physical and chemical processes governing the transport of solutes in groundwater; application of hydrogeologic and geochemical theory and practice to the protection of aquifers from contamination; problem sets and group projects.

**Requisites:** Geoscience 627 and college level chemistry or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**G L E/CIV ENGR 633 – WASTE GEOTECHNICS**

3 credits.

The geotechnical aspects of waste disposal and storage. Critical aspects of geotechnical design, construction, and testing relevant to the performance of earthen structures used for the storage and disposal of wastes or the remediation of contaminated sites are discussed.

**Requisites:** Civ Engr 330 320 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**G L E/CIV ENGR 635 – REMEDIATION GEOTECHNICS**

3 credits.

Geotechnical practice for remediation of sites containing contaminated soil and groundwater is discussed. Topics include non-invasive and invasive subsurface exploration techniques, methods to monitor for the presence of contaminants in the saturated and unsaturated zones, and geotechnically-oriented remedial action technologies.

**Requisites:** Civ Engr 320 330

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**G L E 699 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**G L E/M S & E 705 – ADVANCED ROCK MECHANICS**

3 credits.

Elastic, viscoelastic and plastic behavior of rock, crack phenomena and mechanisms of rock fracture, finite element solutions, dynamic rock mechanics, engineering and geological applications.

**Requisites:** MSE 474, 475, or equiv, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2004

**G L E/GEOSCI 724 – GROUNDWATER FLOW MODELING**

3 credits.

An introduction to the principles of modeling groundwater flow systems, with emphasis on regional flow system analysis. Conceptual understanding of governing equations, and the use of finite difference techniques to solve such equations are stressed. Students develop their own codes and are introduced to packaged models, including those developed by the U. S. Geological Survey.

**Requisites:** GEOSCI/G L E 627 or equivalent, calculus

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**G L E/CIV ENGR 730 – ENGINEERING PROPERTIES OF SOILS**

3 credits.

Determination and interpretation of soil properties for engineering purposes; physio-chemical properties of soil-water systems, permeability and capillarity, compression characteristics of soils, measurement of soil properties in the triaxial test, properties of frozen soils and permafrost.

**Requisites:** Civ Engr 330

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**G L E/CIV ENGR 731 – PROPERTIES OF GEOSYNTHETICS**

3 credits.

Properties and behavior of geosynthetics (plastics sheets and geotextiles used in geotechnical and geo-environmental construction) are discussed and measured in a laboratory setting. Students learn how to measure and quantify geomechanical and hydraulic behavior of geosynthetics which are used in design.

**Requisites:** Grad st Civ Engr 330, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2008**G L E/CIV ENGR 732 – UNSATURATED SOIL GEOENGINEERING**

3 credits.

Engineering principles of unsaturated soils as they apply to geotechnical and geo-environmental systems. Effect of soil water suction and stress on hydraulic conductivity, shear strength, and compressibility of soils in the context of geoengineering problems of flow and stability.

**Requisites:** Grad st Civ Engr/GLE 330 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**G L E/CIV ENGR 733 – PHYSICO-CHEMICAL BASIS OF SOIL BEHAVIOR**

3 credits.

Applications of physicochemical, mineralogical and environmental considerations to the engineering behavior of soils. Soil composition, formation, fabric, pore fluid chemistry and interaction of phases. The particulate nature of soils and the fabric-engineering property (volume change, strength, deformation and conduction) relationships.

**Requisites:** Civ Engr 330 or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**G L E/CIV ENGR 735 – SOIL DYNAMICS**

3 credits.

Geotechnical considerations of earthquake engineering and foundation vibrations. Seismic surveying; ground motion during earthquakes; determination of soil properties for ground response analysis; dynamic properties of soils; soil structure interaction effects; soil liquefaction; dynamic analysis of earth dams; settlements resulting from earthquakes, lateral earth pressures during earthquakes; foundation vibrations.

**Requisites:** Civ Engr/EMA 530, EMA 545 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**G L E 790 – MASTER'S RESEARCH OR THESIS**

1-9 credits.

**Requisites:** Grad st; Master's candidates only**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**G L E 801 – SPECIAL TOPICS IN GEOLOGICAL ENGINEERING**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**G L E 890 – PRE-DISSERTATOR'S RESEARCH**

1-9 credits.

**Requisites:** Grad st, for post-master's, pre-dissertator stdts only**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**G L E 900 – SEMINAR**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**G L E 990 – RESEARCH AND THESIS**

1-9 credits.

**Requisites:** Grad stdt with dissertator status**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**G L E 999 – INDEPENDENT WORK**

1-3 credits.

**Requisites:** Consent of instructor;**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



## GEOSCIENCE (GEOSCI)

### GEOSCI 100 – GENERAL GEOLOGY

3 credits.

Geologic processes, the structure and history of the earth, and minerals, rocks, fossils, and maps; field trips and discussion section. Open to Fr

**Requisites:** Not open to those who have had Geosci 101, 106 or 109.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### GEOSCI/ATM OCN/ENVIR ST 102 – CLIMATE AND CLIMATE CHANGE

3 credits.

This course describes the basic climate principles governing the climate system. It describes the climate and climate variability at present, climate evolution in the past, and the projected climate change into the future.

The scientific principles underlying the natural and anthropogenic greenhouse effect and climate model forecasts are elucidated.

**Requisites:** None

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

### GEOSCI/ATM OCN 105 – SURVEY OF OCEANOGRAPHY

3-4 credits.

Nature and behavior of ocean water, interaction of oceans and atmosphere, structure of the ocean floor, life in the oceans, our relationship to the marine environment. Open to Freshmen

**Requisites:** High school physics or chem recommended.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### GEOSCI/ENVIR ST 106 – ENVIRONMENTAL GEOLOGY

3 credits.

Application of geology to problems resulting from the ever more intense use of the earth and its resources. Lecture and discussion. Open to Fr

**Requisites:** Not open to those who have had Geosci 101, 100, or 109.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### GEOSCI 107 – LIFE OF THE PAST

3 credits.

Minerals, rocks, geologic time; origin of life; paleobiology, evolution and classification of fossil plants, invertebrates, and vertebrates. Lecture, lab. Field trip optional. Open to Fr

**Requisites:** Not open to those who have had GEOSCI 204.

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

### GEOSCI 110 – EVOLUTION AND EXTINCTION

4 credits.

Contemporary views of the origin and diversification of life; crises in the history of life, with emphasis on controversies regarding mass extinctions, particularly at the close of the Paleozoic and Mesozoic eras.

**Requisites:** Open to Freshmen

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### GEOSCI 111 – VOLCANOES AND CIVILIZATION

1 credit.

An introduction to the impact and influence volcanoes have had on the evolution of the Earth, life, human civilizations, and modern society.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

### GEOSCI 112 – MOUNTAINS AND MOVING PLATES

1 credit.

An introduction to the Earth's great mountain ranges, the processes that lead to their births and deaths, and the reasons why continental mountain ranges differ dramatically from oceanic mountains and mountains on other planets.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**GEOSCI 115 – SCIENCE BEHIND THE NEWS - THE WORLD AROUND US**

1-2 credits.

This internet course will examine the earth and environmental science behind the news with the goal of producing more informed and knowledgeable citizens. The content will vary from semester to semester as topical modules become available. Not open to stdts who have completed other 100-level Geoscience crses

**Requisites:** Open to Fr.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEOSCI 117 – EX-FILES: LIFE IN THE EARTH'S EXTREME ENVIRONMENT**

2 credits.

This course will explore the diversity of microbial life forms in modern and ancient geological environments, with a focus on extreme environments of geological origin or relevance. Inquire-based activities will include exploration of unusual aspects of microbial life in everyday settings, as well as preparation and presentation of individual projects.

**Requisites:** Open to Fr**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOSCI 118 – EYE IN THE SKY: MONITORING THE EARTH BY SATELLITE**

1 credit.

Fundamentals of satellite imagery applied to the earth sciences. Basics of image interpretation. Multitemporal data. Resolution and uncertainty. Existing and emerging technologies. Orbits, wavelengths, and satellites. Socio-economic impact of remotely-sensed data.

**Requisites:** Open to Fr**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEOSCI/ATM OCN 140 – NATURAL HAZARDS AND DISASTERS**

3 credits.

An exploration of the science behind natural disasters including earthquakes, tsunamis, volcanic eruptions, landslides, tornadoes, hurricanes, and floods. Why, where, and when do these events occur, and why are some predictable but others are not? The course will also address hazard assessment, forecasting, and mitigation to lessen their impact on society.

**Requisites:** None**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOSCI/ASTRON 160 – LIFE IN THE UNIVERSE**

2 credits.

An examination of the origin and evolution of life in the universe based on our knowledge of astronomy, biology, and geology. Includes discussions on the search for extraterrestrial life and the history of life in our solar system.

**Requisites:** Open to all undergrads**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEOSCI 198 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Graded on a Cr/N basis; requires cons inst**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**GEOSCI 199 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GEOSCI 202 – INTRODUCTION TO GEOLOGIC STRUCTURES**

4 credits.

Introduction to recognition and mapping of geologic structures in the field. Landforms, folds, faults, tectonics, geologic maps, and field instrumentation.

**Requisites:** GEOSCI 100, 101, 106, 109 or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOSCI 203 – EARTH MATERIALS**

5 credits.

An overview of minerals and the three major groups of rocks: igneous, sedimentary, and metamorphic.

**Requisites:** GEOSCI 100, 101, 106, 109 or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2010

**GEOSCI 204 – GEOLOGIC EVOLUTION OF THE EARTH**

4 credits.

Physical evolution of the earth and its relationship to the development of life through geologic time. Lecture, lab, and field trips.

**Requisites:** GEOSCI 100, 101, 106, 109 or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEOSCI 302 – PHYSICS AND CHEMISTRY OF THE EARTH'S INTERIOR**

3 credits.

Description of crust, mantle, and core of the earth as determined from geophysical and geochemical methods.

**Requisites:** GEOSCI 202 203

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**GEOSCI 303 – FLUIDS AND SEDIMENTARY PROCESSES**

3 credits.

Survey of fluid flow and sedimentary processes at and near the surface of the crust. Principal approach is via low-temperature aqueous geochemistry.

**Requisites:** GEOSCI 203 204

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**GEOSCI 304 – GEOBIOLOGY**

3 credits.

An integrative approach to studying the interaction between the atmosphere, hydrosphere, biosphere, and geosphere as they have evolved during earth history. Overarching theme includes ocean-climate system changes, biogeochemical cycles, evolution from microbes to mammals, and critical events in life history.

**Requisites:** GEOSCI 204 or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOSCI/GEOG 320 – GEOMORPHOLOGY**

3 credits.

Principles and analysis of geomorphic processes and resulting land forms. Field trip.

**Requisites:** One of the following: GEOSCI 100, 101, 106, 109, 204, GEOG/ ENVIR ST 120, 127

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEOSCI/GEOG 326 – LANDFORMS-TOPICS AND REGIONS**

3 credits.

Emphasis on natural and human processes that control the morphology of the land and its waterways. When taught by Knox, major emphasis on surface water hydrology, erosion, sedimentation, and physical characteristics of streams and rivers.

**Requisites:** Intro phy geog or phy geosci crse, or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**GEOSCI 331 – GEMS: THE SCIENCE BEHIND THE SPARKLE**

1-2 credits.

This online course covers many of the important aspects of gemology. It explores the formation, collection, properties, and treatment of many popular gemstones. Stdts who have taken Geosci 306 are not eligible for 331. GEOSCI 331 does not count toward the geol major

**Requisites:** Jr st.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOSCI 333 – THE AGE OF DINOSAURS**

3 credits.

This course, intended for non-majors, will survey the evolution and paleobiology of important groups of vertebrates that lived during the Mesozoic Era. Animals that will be covered include dinosaurs, crocodilians, pterosaurs, lizards, turtles, and synapsids.

**Requisites:** None

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**GEOSCI/ATM OCN/ENVIR ST/GEOG 335 – CLIMATIC ENVIRONMENTS OF THE PAST**

3 credits.

Climatic change at timescales from the last 1,000,000 years to the last 1000 years. Examines how climate variability arises from interplay between external forcings, feedbacks within the earth system, and (more recently) human activity.

**Requisites:** ENVIR ST/GEOG/ENVIR ST 120, ENVIR ST/GEOG/ENVIR ST 127, or ATM OCN 100

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOSCI/G L E 350 – INTRODUCTION TO GEOPHYSICS: THE DYNAMIC EARTH**

3 credits.

Methods of geophysics applied to earth structure and plate tectonics. Principles of seismology, gravity, geodesy, magnetism and heat flow.

**Requisites:** MATH 221

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEOSCI/G L E 360 – PRINCIPLES OF MINERALOGY**

3 credits.

Minerals, their physical and chemical properties, crystallography, and geologic significance.

**Requisites:** 1 sem college chem or concurrent registration

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOSCI/G L E 370 – ELEMENTARY PETROLOGY**

3 credits.

Igneous, sedimentary and metamorphic rocks, studied in hand sample and thin section.

**Requisites:** GEOSCI/G L E 360

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEOSCI/ENVIR ST/F&W ECOL/G L E/GEOG/LAND ARC 371 – INTRODUCTION TO ENVIRONMENTAL REMOTE SENSING**

3 credits.

Introduction to the Earth as viewed from above, focusing on use of aerial photography and satellite imagery to study the environment. Includes physical processes of electromagnetic radiation, data types and sensing capabilities, methods for interpretation, analysis and mapping, and applications.

**Requisites:** MATH 114 Sophomore standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOSCI/ENVIR ST/F&W ECOL/G L E/GEOG/LAND ARC 372 – INTERMEDIATE ENVIRONMENTAL REMOTE SENSING**

3 credits.

Examines intermediate-level concepts in information extraction, data processing and radiative transfer relevant to remote sensing of the environment. Includes transforms, image correction, classification algorithms and change detection, with emphasis on applications for land use planning and natural resource management.

**Requisites:** Envir St 301 or consent of instructor, sophomore standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**GEOSCI 375 – PRINCIPLES OF GEOCHEMISTRY**

3 credits.

Provides a chemical basis for understanding the origin, evolution, distribution and interactions of chemical elements and isotopes between the lithosphere, hydrosphere, biosphere, and atmosphere in geological and environmental processes.

**Requisites:** GEOSCI/G L E 360 and CHEM 109; and GEOSCI/G L E 370 or con reg; or cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEOSCI 376 – TOPICS IN GEOLOGY**

1-3 credits.

Special topics or discussions of recent research. To be given as the need and opportunity arise. Different sections of this course may be simultaneously offered in two or more areas of geology. May be repeated for credit.

**Requisites:** Cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**GEOSCI/ENVIR ST 410 – MINERALS AS A PUBLIC PROBLEM**

3 credits.

Distribution of mineral resources; present and future problems of mineral supply; conservation of minerals, and mineral resources in relation to national and international policy.

**Requisites:** Open to Fr**Course Designation:** Breadth - Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2011**GEOSCI/ENVIR ST 411 – ENERGY RESOURCES**

3 credits.

Sources, availability of fuels. Energy conversion and efficiency. Consumption patterns and trends. Environmental consequences of energy production and use. Policy considerations and alternatives.

**Requisites:** Crse in college level math a crse in phy sci or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOSCI/GEOG 420 – GLACIAL AND PLEISTOCENE GEOLOGY**

3 credits.

Principles, characteristics and work of glaciers; events of the Pleistocene. Field trip.

**Requisites:** GEOSCI 100, 101, 106 or 109 or GEOG/ENVIR ST 120**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEOSCI 430 – SEDIMENTOLOGY AND STRATIGRAPHY**

3 credits.

Comprehensive survey of the processes and products of sedimentation, including depositional environments, sedimentary tectonics, sequence stratigraphic principles, and analytical methods.

**Requisites:** GEOSCI 203 or GEOSCI/G L E 360 370; GEOSCI 204; and GEOSCI 100, 101 or 106**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEOSCI/G L E 431 – SEDIMENTARY & STRATIGRAPHY LAB**

1 credit.

Field- and specimen-based laboratory course in Sedimentology Stratigraphy; emphasizes qualitative and quantitative description and interpretation of sediments and sedimentary deposits.

**Requisites:** GEOSCI 204, GEOSCI/G L E 360, GEOSCI/G L E 370**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GEOSCI/CIV ENGR/ENVIR ST/G L E 444 – PRACTICAL APPLICATIONS OF GPS SURVEYING**

2 credits.

Global positioning system surveying for field applications. Signals. Coordinate systems. Datums. Cartographic projections. Satellite orbits. Choosing hardware. Strategies for data collection and analysis. Assessing uncertainty. Geocoding satellite images. Integrating data with Geographic Information Systems. Emerging technologies.

**Requisites:** MATH 210, 211, 221 or equiv or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEOSCI/G L E 455 – STRUCTURAL GEOLOGY**

4 credits.

Principles of rock deformation, structures in layered rocks, structural analysis, intrusive structures. Lab: three-dimensional problems involving structural concepts; field trip. GEOSCI/G L E 360 and 370 recommended or concurrent registration

**Requisites:** GEOSCI 202, 204, one term of physics.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEOSCI 456 – GEOLOGIC FIELD METHODS**

2 credits.

Theory and techniques of geologic mapping; field trips. Geology 456 cannot be taken in lieu of Geology 459.

**Requisites:** GEOSCI/G L E 455 must be taken con reg**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2010



**GEOSCI 457 – CONDUCTED FIELD TRIP**

2 credits.

A one or two week trip primarily for the study of the principles and methods of geologic mapping.

**Requisites:** Cons inst; GEOSCI/G L E 370 or con reg

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEOSCI 459 – FIELD GEOLOGY**

6 credits.

Detailed geologic mapping and solution of related problems in the field. A multi institutional course based at Park City, Utah.

**Requisites:** GEOSCI 203 or GEOSCI/G L E 360 370; GEOSCI/G L E 455; cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**GEOSCI/G L E/M S & E 474 – ROCK MECHANICS**

3 credits.

Classification of rock masses, stress and strain in rock, elastic and time-dependent behavior of rock, state of stress in rock masses, failure mechanisms, lab testing, geological and engineering applications.

**Requisites:** EMA 201 or 214, 304, or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEOSCI/G L E/M S & E 475 – ROCK MECHANICS APPLICATIONS TO ENVIRONMENTAL PROBLEMS**

3 credits.

Classification of rock for specific engineering purposes, in situ testing, applications to surface mining and slope stability, applications to underground mining and excavations, applications to waste disposal and underground storage, applications to novel methods of in situ mining, applications to earthquakes.

**Requisites:** MSE 474 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2007

**GEOSCI/HIST SCI 514 – HISTORY OF GEOLOGIC THOUGHT**

3 credits.

Major concepts from earliest to modern times.

**Requisites:** Sr st, GEOSCI 100 or 101 204 or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**GEOSCI 515 – PRINCIPLES OF ECONOMIC GEOLOGY**

4 credits.

(Open to mining engineering students for 3 cr.) Composition, structure, occurrence, origin, and economic investigation of important groups of mineral deposits; problems of mineral deposition.

**Requisites:** GEOSCI 203 or GEOSCI/G L E 360 370; GEOSCI 204; or cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEOSCI 517 – MONSTERS AND SCIENCE: A HISTORY OF VERTEBRATE PALEONTOLOGY**

3 credits.

This course will explore the history of vertebrate paleontology, concentrating on the 19th through 21st centuries. The shifting and sometimes uncomfortable relations between paleontology and other sciences, the arts and the public will be a major theme of the course.

**Requisites:** Junior standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**GEOSCI/GEOG 523 – QUATERNARY VEGETATION DYNAMICS**

3 credits.

Geographic responses of plant species and terrestrial ecosystems to late-Quaternary environmental change, particularly changes in climate and carbon dioxide. Quaternary vegetation dynamics are relevant to understanding vegetational responses to the 21st-century climate change. Laboratory section emphasizes multivariate data analysis and vegetational modeling.

**Requisites:** Jr st GEOG/ENVIR ST 120/127 or equiv

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**GEOSCI/GEOG 524 – ADVANCED LANDFORM GEOGRAPHY**

3 credits.

Purposes, methods, and content of analysis of landforms, with emphasis on quantitative descriptive regional variation, and functional relationships.

**Requisites:** Cons inst or Jr st

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2011



**GEOSCI/GEOG 527 – THE QUATERNARY PERIOD**

3 credits.

Principles of Quaternary studies emphasizing terrestrial records and paleoecology of the past two million years and comparisons with the deep ocean record and models of climatic change.

**Requisites:** 1 intermed-level course in physical geog or geosci; or consent of instructor

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**GEOSCI/ZOOLOGY 541 – PALEOBIOLOGY**

3 credits.

The evolutionary process as interpreted from the fossil record. Topics include: the study of form; tempo and mode of evolution; levels and mechanisms of evolutionary change; extinction in the fossil record; trends and patterns in the history of life; macroevolution.

**Requisites:** GEOSCI 304 or 540 or course in introductory biology

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**GEOSCI/ZOOLOGY 542 – INVERTEBRATE PALEONTOLOGY**

3 credits.

The evolutionary history, morphology, and ecology of fossil invertebrates. Labs emphasize fossil identification and recognition of basic morphological features.

**Requisites:** GEOSCI 107, 110, 204, or a course in introductory biology

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**GEOSCI 551 – OCEANOGRAPHY: RECENT MARINE SEDIMENTS**

3 credits.

Origin, dispersal, composition, and in situ properties of recent clastic and carbonate seafloor deposits. Modern investigations of deep-sea cores, continental shelf and slope deposits, and on interpretation of mutually related oceanographic and sedimentary data.

**Requisites:** Cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**GEOSCI 556 – MOUNTAIN BELTS**

3 credits.

Examination of interaction of tectonic plates and the resulting structures.

**Requisites:** Geoscience 455

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2007

**GEOSCI 557 – STRUCTURAL PETROLOGY**

3 credits.

Petrographic investigation of rock fabrics and deformation using thin sections. Use of microscopes and U-stage.

**Requisites:** GEOSCI 203 or GEOSCI/G L E 360 370; GEOSCI/G L E 455; or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOSCI/G L E 594 – INTRODUCTION TO APPLIED GEOPHYSICS**

3 credits.

Survey of applied geophysics, including seismic refraction, seismic reflection, electrical resistivity, gravity, and magnetics methods. The course will cover the basic physics of each method and modeling techniques and field procedures.

**Requisites:** 1 yr of college calc, 1 yr of college physics

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOSCI/G L E 595 – FIELD METHODS IN APPLIED AND ENGINEERING GEOPHYSICS**

1 credit.

The application of geophysical field methods for delineating near-surface features and/or structures as applied to engineering, environmental and exploration problems.

**Requisites:** 1 yr coll calc, 1 yr coll physics or EMA 201, 202 PHYSICS 202, prev or con reg in GLE/Geoscience 594

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOSCI 610 – GEOCHRONOLOGY, TIMESCALES, AND RATES OF GEOLOGIC PROCESSES**

3 credits.

Application of radioisotopic (Ar-Ar, U-Pb, U-Th, U-He) and cosmogenic (He, Ne, Cl, Be, C) dating methods. Status of geologic, astronomic and paleomagnetic timescales, Chronology of flood basalts, impacts, extinctions, glaciations. Constraints on rates of magmatism, mountain uplift, deformation, erosion, sedimentation.

**Requisites:** GEOSCI 203 or GEOSCI/G L E 360 370 or equiv, or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOSCI/G L E 627 – HYDROGEOLOGY**

3-4 credits.

Mathematical treatment of the physical principles governing the flow of groundwater; emphasis on well hydraulics and flow system analysis; problem sets and class projects.

**Requisites:** Intro course in geol, Jr st MATH 221 or equiv

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOSCI/G L E 629 – CONTAMINANT HYDROGEOLOGY**

3 credits.

Physical and chemical processes governing the transport of solutes in groundwater; application of hydrogeologic and geochemical theory and practice to the protection of aquifers from contamination; problem sets and group projects.

**Requisites:** Geoscience 627 and college level chemistry or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**GEOSCI 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**GEOSCI 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**GEOSCI 691 – SENIOR THESIS**

3-4 credits.

The senior thesis involves research conducted in collaboration with a faculty member (non honors students).

**Requisites:** Major in geology and geophysics or geological engineering

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOSCI 692 – SENIOR THESIS**

3-4 credits.

The senior thesis involves research conducted in collaboration with a faculty member (non honors students).

**Requisites:** Major in geology and geophysics or geological engineering

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEOSCI 698 – DIRECTED STUDY**

1-6 credits.

Graded on a Cr/N basis; requires cons inst

**Requisites:** Jr or Sr st.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**GEOSCI 699 – DIRECTED STUDY**

1-6 credits.

Graded on a lettered basis; requires cons inst

**Requisites:** Jr or Sr st.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**GEOSCI/G L E 724 – GROUNDWATER FLOW MODELING**

3 credits.

An introduction to the principles of modeling groundwater flow systems, with emphasis on regional flow system analysis. Conceptual understanding of governing equations, and the use of finite difference techniques to solve such equations are stressed. Students develop their own codes and are introduced to packaged models, including those developed by the U. S. Geological Survey.

**Requisites:** GEOSCI/G L E 627 or equivalent, calculus

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**GEOSCI 727 – ADVANCED HYDROGEOLOGY**

1-3 credits.

Advanced topics in Hydrogeology.

**Requisites:** GEOSCI/G L E 627 and cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**GEOSCI 729 – FIELD APPLICATIONS IN HYDROGEOLOGY**

2 credits.

Instruction and practice in instrumentation and techniques used in collection and interpretation of data. Lectures, labs, and field work in and around Madison.

**Requisites:** GEOSCI/G L E 627

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2015

**GEOSCI 731 – CARBONATE GEOLOGY**

2 credits.

Comprehensive survey of the processes and products of carbonate sedimentation. Enrolling students should have completed all or most of the geology course requirements for an undergraduate major, in particularly sedimentary geology and stratigraphy.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GEOSCI 732 – GEOCHEMISTRY OF SEDIMENTS**

3 credits.

Processes involved in the origin of chemical sediments; shales, carbonates, and evaporites.

**Requisites:** GEOSCI/G L E 360, 370

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOSCI 737 – CONDUCTED FIELD TRIP**

2 credits.

A 10-day field trip to South Florida carbonate province or to the Ouachita-Arbuckle area, or to other areas pertinent to sedimentary geology. Lectures precede trip.

**Requisites:** A stratigraphy or sedimentology crse or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2011

**GEOSCI 740 – MICROPALAEONTOLOGY I**

3 credits.

Microscopic fossils; conodonts, foraminifera, and ostracodes in particular; their biology, ecology, evolution, and stratigraphic distribution.

**Requisites:** GEOSCI/ZOOLOGY 541

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**GEOSCI/ATM OCN/ENVIR ST/ZOOLOGY 750 – PROBLEMS IN OCEANOGRAPHY**

3 credits.

Introduction to techniques used in the study of the biology, chemistry, geology, and physics of the marine environment.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**GEOSCI 755 – ADVANCED STRUCTURAL GEOLOGY**

3 credits.

Structures in layered, intrusive, and metamorphic rocks; structural analysis.

**Requisites:** GEOSCI/G L E 455 or equiv

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**GEOSCI 758 – MECHANICS OF EARTHQUAKES AND FAULTING**

3 credits.

Addresses current topics and controversies on fault mechanics, earthquake physics, and the rock record of seismicity. The course will emphasize critical reading and in-depth discussion of recent publications drawn from a variety of disciplines, including geophysical, geological, and geochemical studies and approaches.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GEOSCI 765 – CRYSTAL CHEMISTRY**

3 credits.

Principles of crystal chemistry, emphasizing the structure and behavior of rock forming minerals.

**Requisites:** GEOSCI/G L E 360 or equiv or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**GEOSCI 771 – IGNEOUS PETROLOGY**

3 credits.

Classification, characteristics, and petrogenesis of igneous rocks. Representative rock suites studied in lab.

**Requisites:** Geosci 660 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**GEOSCI 772 – METAMORPHIC PETROLOGY**

3 credits.

Metamorphic agents and processes; the metamorphic facies concept; illustrative rock suites studied in lab.

**Requisites:** Geoscience 370**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2009**GEOSCI 776 – INTERFACIAL BIOGEOCHEMISTRY**

3 credits.

Geochemical basis for understanding reactions at interfaces between mineral surfaces, dissolved organic compounds, biomembranes and aqueous solutions. Topics include sorption, heterogeneous nucleation, mineral dissolution kinetics electric double-layer theory, surface-complexation models, surface spectroscopy, interfacial thermodynamics, biomineralization biomimetic materials synthesis, early evolution of life.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**GEOSCI 777 – ELECTRON MICROPROBE ANALYSIS**

3 credits.

Proper use and functioning of electron probe and SEM, their use in microanalysis (WDS, EDS), range of applications, and limitations; plus lab.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**GEOSCI 793 – GEOPHYSICAL INVERSE THEORY**

3 credits.

Application of inverse methods to geophysical measurements of the structure of the earth.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**GEOSCI 796 – PHYSICS OF THE EARTH II**

3 credits.

Theory and observations of earthquakes, seismic waves and plate tectonics.

**Requisites:** PHYSICS 322, MATH 322**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**GEOSCI 797 – TECTONOPHYSICS**

3 credits.

Elasticity and flexure of the earth's lithosphere, heat conduction, mantle convection, earthquake mechanisms, rock rheology, and fluid migration in the earth's crust; integration of geophysical observations, laboratory experiments, and theoretical models.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**GEOSCI 875 – ADVANCED TOPICS IN GEOLOGY**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GEOSCI/ATM OCN/BOTANY/CIV ENGR/ENVIR ST/ZOOLOGY 911 – LIMNOLOGY AND MARINE SCIENCE SEMINAR**

1 credit.

Sections in various fields of zoological research.

**Requisites:** Grad st in limnology marine sci grad prgm or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GEOSCI 920 – SEMINAR IN GLACIAL AND PLEISTOCENE GEOLOGY**

1-3 credits.

Subjects selected; field trips.

**Requisites:** GEOSCI/GEOG 320 420 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GEOSCI 929 – SEMINAR-HYDROGEOLOGY**

1-2 credits.

Subject selected.

**Requisites:** GEOSCI/G L E 627 cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015

**GEOSCI 940 – SEMINAR IN PALEONTOLOGY**

1 credit.

**Requisites:** Geosci 540-541**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**GEOSCI 955 – SEMINAR-STRUCTURAL GEOLOGY**

2 credits.

**Requisites:** GEOSCI/G L E 455 or equiv or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**GEOSCI 970 – SEMINAR-GEOCHEMISTRY**

2 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**GEOSCI/ATM OCN/BOTANY/ENVIR ST/F&W ECOL/GEOG/ZOOLOGY 980 – EARTH SYSTEM SCIENCE SEMINAR**

1 credit.

Topics in earth system science. Emphasis on the coupling between atmospheric, oceanic and land surface systems, involving physical geochemical and biological processes, and including interactions with human systems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**GEOSCI 990 – RESEARCH**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GEOSCI 991 – SEMINAR: GEOPHYSICS**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GEOSCI 999 – ADVANCED INDEPENDENT READING**

1-3 credits.

**Requisites:** Consent of instructor;**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GERMAN (GERMAN)****GERMAN 101 – FIRST SEMESTER GERMAN**

4 credits.

For beginners; emphasis on proficiency in German through speaking, listening, reading, and writing, and on communication in cultural context. Five class hours per week.

**Requisites:** Open to Freshmen**Course Designation:** Frgn Lang - 1st semester language course Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GERMAN 102 – SECOND SEMESTER GERMAN**

4 credits.

Continuation of skill development from 101. Five class hours per week. Open to Freshmen

**Requisites:** GERMAN 101 or appropriate score on placement exam.**Course Designation:** Frgn Lang - 2nd semester language course Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GERMAN 111 – FIRST SEMESTER DUTCH**

4 credits.

For beginners; emphasis on proficiency in Dutch through speaking, listening, reading, and writing, and on communication in cultural context. Four class hours per week.

**Requisites:** Open to Fr**Course Designation:** Frgn Lang - 1st semester language course Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GERMAN 112 – SECOND SEMESTER DUTCH**

4 credits.

Continuation of skill development begun in Dutch 111. Four class hours per week. Open to Fr

**Requisites:** Dutch 111 or cons inst.**Course Designation:** Frgn Lang - 2nd semester language course Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**GERMAN 203 – THIRD SEMESTER GERMAN**

4 credits.

Four-skills approach (speaking, listening, writing, reading) centered around authentic texts, recordings, and images. Grammar review, concerted vocabulary expansion, and intensive practice. Open to Freshmen

**Requisites:** GERMAN 102 or appropriate score on placement exam.

**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GERMAN 204 – FOURTH SEMESTER GERMAN**

4 credits.

Continuation of skills development from 203. Open to Freshmen

**Requisites:** GERMAN 203 or appropriate score on placement exam.

**Course Designation:** Frgn Lang - 4th semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GERMAN 213 – THIRD SEMESTER DUTCH**

4 credits.

Review of Dutch grammar and continuation of systematic vocabulary development.

**Requisites:** Dutch 112 or cons inst

**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GERMAN 214 – FOURTH SEMESTER DUTCH**

4 credits.

Reading and discussion of texts dealing with the cultural history of the Netherlands and Flanders as well as samples of modern Dutch fiction.

**Requisites:** Dutch 213 or cons inst

**Course Designation:** Frgn Lang - 4th semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GERMAN 221 – INTRODUCTION TO GERMAN LITERATURE AND CULTURE I**

3 credits.

Readings and discussion of a variety of 20th-century German-language literary and cultural texts such as short stories, plays, and poems, as well as autobiographical writings and essays; introduction to the analysis of literary texts; emphasis on development of reading, speaking, and writing skills. In German. Open to Fr

**Requisites:** GERMAN 204 or 225, or placement at 5th-sem level.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**GERMAN 222 – INTRODUCTION TO GERMAN LITERATURE AND CULTURE II**

3 credits.

Variety of texts from the late 18th and 19th centuries; emphasis on close reading, techniques of textual analysis, and cultural context. Further improvement in reading, speaking, and writing skills. In German. Open to Fr

**Requisites:** GERMAN 221 or cons inst.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**GERMAN 225 – COMPOSITION AND CONVERSATION I**

3 credits.

Speaking and writing about everyday matters and elements of contemporary culture in German-speaking countries; grammar review. Open to Fr

**Requisites:** GERMAN 204 or appropriate score on placement exam; may be repeated once only for cr.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2010

**GERMAN 226 – COMPOSITION AND CONVERSATION II**

3-4 credits.

Continuation of 225 with more advanced materials. Open to Fr

**Requisites:** GERMAN 225; may be repeated once only for cr.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2010



**GERMAN 235 – DUTCH CONVERSATION AND COMPOSITION**

3 credits.

A review of Dutch grammar and vocabulary and intensive development of writing and speaking skills in Dutch. Completion of this course will provide students with a strong linguistic preparation for study in a Dutch-speaking university.

**Requisites:** GERMAN 214 or cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** No**Last Taught:** Fall 2017**GERMAN 236 – BASCOM COURSE**

3 credits.

A low-enrollment course developing skills in critical reading, logical thinking, use of evidence, and use of library resources. Emphasis on writing in the conventions of specific fields.

**Requisites:** Satisfied Communications A requirement**Course Designation:** Gen Ed - Communication Part B  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GERMAN 245 – TOPICS IN DUTCH LIFE AND CULTURE**

3 credits.

Cultural history and traditions of Dutch speaking countries. All readings and lectures in English.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**GERMAN 249 – INTERMEDIATE GERMAN - SPEAKING AND LISTENING**

3 credits.

Drawing mainly on contemporary audio and video materials from German-speaking countries, students will deepen their appreciation of German as a spoken language by learning how native speakers vary their use of sound structures, vocabulary, and grammar according to speech situation.

**Requisites:** GERMAN 204 or appropriate UW-System German Placement Test score or cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GERMAN 258 – INTERMEDIATE GERMAN-READING**

3 credits.

Students will develop their reading skills in working with literary and cultural texts from 1800 to the present. The course emphasizes close reading, textual analysis, historical context, and the use of appropriate reading strategies.

**Requisites:** GERMAN 204 or appropriate UW-System German Placement Test score or consent of instructor**Course Designation:** Breadth - Literature. Counts toward the Humanities req  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GERMAN 262 – INTERMEDIATE GERMAN-WRITING**

3 credits.

This course will strike a balance between individual and collaborative writing and between teacher- and student-guided writing activities. Students' writings will rely on authentic text models, many with German-specific cultural connotations. Longer-term writing projects will alternate with short-term writing assignments.

**Requisites:** GERMAN 204 or appropriate UW-System German Placement Test score or consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GERMAN 266 – TOPICS IN GERMAN AND/OR YIDDISH CULTURE**

3 credits.

Introduction to diverse cultural expressions of German and/or Yiddish speakers worldwide. Readings and lectures in English.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GERMAN/JEWISH 267 – YIDDISH SONG AND THE JEWISH EXPERIENCE**

3-4 credits.

Explores Yiddish song as an expression of the modern Jewish experience from Eastern Europe to the US. Covers folk song, popular and art music. Music and readings together provide an analytical framework to examine cultural and historical issues.

**Requisites:** For Communication B sections, satisfied Communication A requirement**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**GERMAN/JEWISH/LITTRANS 269 – YIDDISH LITERATURE AND CULTURE IN EUROPE**

3 credits.

Exploration of European Yiddish fiction, poetry, folklore, and cinema, with a focus on works of the 19th and 20th centuries.

**Requisites:** Open to Freshmen

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**GERMAN 271 – THE GERMAN IMMIGRATION EXPERIENCE**

3 credits.

Surveys experiences through the centuries of America's German-speaking immigrants, including their situations in Europe, their reasons for leaving, and their successes and difficulties in their new home. Historical, sociological, linguistic, cultural, and other aspects will be considered.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**GERMAN 272 – NAZI CULTURE**

3 credits.

Examines how ideology and new policies influenced cultural life in the Third Reich. Topics include propaganda and entertainment films, music, literature and theater, visual arts and architecture, youth education, and consumer culture specifically in its appeal to women.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GERMAN 274 – INTRODUCTION TO GERMAN LITERATURE**

6 credits.

Intensive introduction to German-language literature from 1750 to the present, and to techniques of literary analysis. Completion of 274 satisfies the 6-credit literature requirement for L S students. Students may not receive credit for both 258 and 274. Open to Fr

**Requisites:** GERMAN 204 with an A, or placement at 5th-semester level and cons inst.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GERMAN 275 – KAFKA AND THE KAFKAESQUE**

3 credits.

Franz Kafka (1883-1924) is an author whose impact on world literature cannot be overestimated. Born an Austrian Jew and living in the German-speaking Diaspora of Prague, he spent his days making a living as a successful employee of an insurance company and his nights desperately trying to create fiction that met his own exacting expectations. Constantly at odds with the demands of his family, friends, and fiancées/female acquaintances and plagued by poor health, Franz Kafka struggled his entire life long to reconcile the irreconcilable: life and writing. Kafka's texts demand a transdisciplinary and comparative approach. They forged a new level and quality of literature that has triggered innumerable responses in many languages, media, and discourses. The term "Kafkaesque" makes clear that the type and dimension of Kafka's texts have been perceived as strange, uncanny, and resistant to any classification. In the attempt to adopt or imitate the Kafkaesque, other authors situate themselves in the literary tradition of the uncanny, which in part relies on the mystified city of Prague with its long Jewish tradition, as well as on the tradition of Romantic and "Gothic" texts. In this course, we will read a wide selection of texts by Franz Kafka in order to approach an understanding of his universe and prepare ourselves to view this universe in comparison with other contemporary authors as well as authors from other cultures and eras (A. Camus, W. G. Sebald, T. Pynchon, H. Mulisch, P. Roth, H. Murakami). Lectures will also highlight literature, film, and art works in the tradition of the Kafkaesque.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**GERMAN/LITTRANS 276 – SPECIAL TOPICS IN GERMAN AND WORLD LITERATURE/S**

3 credits.

Exploration of diverse world literary traditions, including German. All readings and lectures in English.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GERMAN 278 – TOPICS IN GERMAN CULTURE**

3 credits.

Introduction to German-speaking cultures. Topics may include Weimar culture, Nazi culture, Berlin, fin-de-siecle Vienna, minorities, representatives of the Holocaust, Germanic mythology, East Germany, Germans in America. Readings and lectures in English. Does not fulfill foreign language requirement and cannot be applied towards German major. Repeatable for cr with different topic

**Requisites:** Open to Fr.**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**GERMAN/JEWISH/LITTRANS 279 – YIDDISH LITERATURE AND CULTURE IN AMERICA**

3 credits.

Exploration of American Yiddish poetry, fiction, theater, and cinema created by European Jews in the United States.

**Requisites:** Open to Freshmen**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GERMAN 284 – HONORS INTRODUCTION TO GERMAN LITERATURE**

6 credits.

Intensive introduction to German-language literature from 1750 to the present, and to techniques of literary analysis for honors. Completion of 284 satisfies the 6-credit literature requirement for LS students. Students may not receive credit for both 258 and 284. Open to Fr

**Requisites:** GERMAN 204 with an A, or placement at 5th-semester level cons inst.**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GERMAN 298 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2003**GERMAN 299 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**GERMAN 303 – LITERATUR DES 19. JAHRHUNDERTS**

3-4 credits.

**Requisites:** GERMAN 249, 258, and 262; or GERMAN 249 and 274 or 284; or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2011**GERMAN 305 – LITERATUR DES 20. UND 21. JAHRHUNDERTS**

3-4 credits.

**Requisites:** GERMAN 249, 258, and 262; or GERMAN 249 and 274 or 284; or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GERMAN 311 – FIRST SEMESTER DUTCH FOR GRADUATE STUDENTS**

3 credits.

Designed to help graduate students acquire a minimal communication level of proficiency in Dutch through listening, speaking, reading, and writing. Four class hours per week.

**Requisites:** Grad st**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GERMAN 312 – SECOND SEMESTER DUTCH FOR GRADUATE STUDENTS**

3 credits.

Continuation of skill development begun in GERMAN 111/311. Four class hours per week.

**Requisites:** Grad st and: GERMAN 111 or 311 or cons inst**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**GERMAN 313 – THIRD SEMESTER DUTCH FOR GRADUATE STUDENTS**  
3 credits.

A review of Dutch grammar and vocabulary development. Reading and discussion of newspaper articles and modern short stories.

**Requisites:** Grad st and: GERMAN 112 or 312 or cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GERMAN 314 – FOURTH SEMESTER DUTCH FOR GRADUATE STUDENTS**  
3 credits.

Reading and discussion of texts dealing with the cultural history of the Netherlands and Flanders as well as samples of modern Dutch fiction.

**Requisites:** Grad st and: GERMAN 213 or 313 or cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GERMAN 325 – TOPICS IN DUTCH LITERATURE**  
3 credits.

Study of an author or theme in modern Dutch/Flemish literature, presented by the current Dutch/Flemish writer in residence.

**Requisites:** 4 sem Dutch or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**GERMAN 335 – DUTCH CONVERSATION AND COMPOSITION**  
3 credits.

A review of Dutch Grammar and vocabulary and intensive development of writing and speaking skills in Dutch. Completion of this course will provide students with a strong linguistic preparation for study in a Dutch-speaking university.

**Requisites:** GERMAN 314 or cons inst

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GERMAN 337 – ADVANCED COMPOSITION & CONVERSATION**  
3-4 credits.

Essay writing; vocabulary building; oral presentations.

**Requisites:** GERMAN 249, 258, and 262; or GERMAN 249 and 274 or 284; or cons inst; may be repeated once only for credit

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, for 2 number of completions

**Last Taught:** Fall 2017

**GERMAN 339 – BUSINESS GERMAN INTERNSHIP SEMINAR**  
4 credits.

Seminar in connection with the German Business Internship Program in Bonn, Germany.

**Requisites:** Participation in German Business Internship Program in Bonn

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**GERMAN 351 – INTRODUCTION TO GERMAN LINGUISTICS**  
3-4 credits.

Understanding the German language in its historical development and its contemporary manifestations, using English as a point of reference.

**Requisites:** GERMAN 249, 258, and 262; or GERMAN 249 and 274 or 284; or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GERMAN 352 – TOPICS IN GERMAN LINGUISTICS**  
3-4 credits.

Hands-on introduction to a topic in German language study. Course topics are designed to be relevant to future teachers of German as well as to those inclined to pursue graduate study in German philology/linguistics.

**Requisites:** GERMAN 351 or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**GERMAN 362 – TOPICS IN GERMAN LITERATURE**  
3-4 credits.

Selected topics in the literature of German-speaking countries.

**Requisites:** GERMAN 249, 258, and 262; or GERMAN 249 and 274 or 284; or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**GERMAN 367 – STUDY ABROAD IN GERMAN LITERATURE**

2-5 credits.

Treatment of a topic in German literature in a course carried with a UW-Madison study abroad program which has no equivalent on this campus.

**Requisites:** Current reg in a UW-Madison study abroad prgm, plus GERMAN 249, 238, and 262; or GERMAN 249 and 274 or 284; or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**GERMAN 368 – STUDY ABROAD IN GERMAN CULTURE**

2-5 credits.

Treatment of a topic in German culture in a course carried with a UW-Madison study abroad program which has no equivalent on this campus.

**Requisites:** Current reg in a UW-Madison study abroad prgm, plus GERMAN 249, 258 and 262; or GERMAN 249 and 274 or 284; or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**GERMAN 369 – STUDY ABROAD IN GERMAN LINGUISTICS**

2-5 credits.

Treatment of a topic in German linguistics in a course carried with a UW-Madison study abroad program which has no equivalent on this campus.

**Requisites:** Current reg in a UW-Madison study abroad prgm, plus GERMAN 249, 258, and 262; or GERMAN 249 and 274 or 284; or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**GERMAN 372 – TOPICS IN GERMAN CULTURE**

3-4 credits.

Selected topics in the culture of German-speaking countries.

**Requisites:** GERMAN 249, 258, and 262; or GERMAN 249 and 274 or 284; or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**GERMAN 377 – STUDY ABROAD IN DUTCH LITERATURE**

2-5 credits.

Treatment of a topic in Dutch literature in a course offered at a university outside the United States.

**Requisites:** GERMAN 214

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**GERMAN 378 – STUDY ABROAD IN DUTCH CULTURE**

2-5 credits.

Treatment of a topic in Dutch culture in a course offered at a university outside the United States.

**Requisites:** GERMAN 214

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2003

**GERMAN 379 – STUDY ABROAD IN DUTCH LINGUISTICS**

2-5 credits.

Treatment of a topic in Dutch linguistics in a course offered at a university outside the United States.

**Requisites:** GERMAN 214

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**GERMAN 385 – HONORS SEMINAR IN GERMAN LITERATURE**

3 credits.

Selected topics from 1750 to the present. Stdts may receive degree cr for no more than one of the following crses: German 375 385. Open to Fr

**Requisites:** GERMAN 284 or one of 302-305 or cons inst.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**GERMAN 391 – GERMAN FOR GRADUATE READING KNOWLEDGE I**

3 credits.

Intensive grammar and reading course for seniors and graduate students. May not be counted toward L S foreign language requirement.

**Requisites:** Sr or Grad st

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GERMAN 392 – GERMAN FOR GRADUATE READING KNOWLEDGE II**  
3 credits.

Continuation of 391. May not be counted toward L S foreign language requirement.

**Requisites:** Sr or Grad st plus GERMAN 391 or cons inst

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GERMAN 401 – FIRST-SEMESTER GERMAN FOR GRADUATE STUDENTS**  
3 credits.

For beginners; emphasis on proficiency in German through speaking, listening, reading, and writing, and on communication in cultural context. Five class hours per week.

**Requisites:** Graduate standing

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GERMAN 402 – SECOND-SEMESTER GERMAN FOR GRADUATE STUDENTS**  
3 credits.

Continuation of skill development from 401. Five class hours per week.

**Requisites:** Graduate standing GERMAN 101 or 401 or the equivalent

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GERMAN 403 – THIRD-SEMESTER GERMAN FOR GRADUATE STUDENTS**  
3 credits.

Four-skills approach (speaking, listening, writing, reading) centered around authentic texts, recordings, and images. Grammar review, concentered vocabulary expansion, and intensive practice.

**Requisites:** Graduate standing GERMAN 102 or 402 or the equivalent

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GERMAN 404 – FOURTH-SEMESTER GERMAN FOR GRADUATE STUDENTS**  
3 credits.

Continuation of skills development from 403.

**Requisites:** Graduate standing GERMAN 203 or 403 or the equivalent

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GERMAN 410 – KULTUR 1648-1918**  
3-4 credits.

**Requisites:** GERMAN 249, 258, and 262; or GERMAN 249 and 274 or 284; or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**GERMAN 411 – KULTUR DES 20. JAHRHUNDERTS**  
3-4 credits.

Cultural trends in the German-speaking countries since 1918.

**Requisites:** GERMAN 249, 258, and 262; or GERMAN 249 and 274 or 284; or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GERMAN 445 – TOPICS IN DUTCH CULTURE**  
3-4 credits.

Topic in Dutch-language cultures.

**Requisites:** GERMAN 214 or 314, or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**GERMAN/JEWISH 510 – GERMAN-JEWISH CULTURE SINCE THE 18TH CENTURY**  
3 credits.

Investigates German-Jewish culture since the 18th century, concentrating on toleration, emancipation, acculturation, assimilation, anti-Semitism, and Bildung.

**Requisites:** Jr st

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2010

**GERMAN 560 – TOPICS IN GERMAN STUDIES**  
3 credits.

Topics will vary. Each seminar will focus on a topic in German Studies.

The language of instruction and all course materials are in English.

Honors credit available.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015



**GERMAN/MEDIEVAL 611 – SURVEY OF GERMAN LITERATURE TO 1700**  
3 credits.

Representative works from the oldest records to the eighteenth century.

**Requisites:** Sr st or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**GERMAN 612 – GERMAN LITERARY MOVEMENTS SINCE 1750**  
3 credits.

Ideas and theories of literary movements exemplified in selected primary and secondary literature.

**Requisites:** Grad st or two of: German 302, 303, 305, 375/385

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GERMAN 625 – LETTERKUNDE DER LAGE LANDEN**  
3-4 credits.

Topics vary. May include: medieval literature; Golden Age literature; texts from Europe, South Africa, Indonesia, the Caribbean; memory in post-war literature; women writers; twentieth-century movements; Dutch-Jewish literature. Taught primarily in Dutch.

**Requisites:** GERMAN 314 or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**GERMAN 632 – A THEME IN GERMAN LITERATURE**  
3 credits.

**Requisites:** Grad st or two of: German 302, 303, 305, 375/385

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**GERMAN 644 – THEORY AND PRACTICE OF GERMAN DRAMA**  
3 credits.

German dramatic theory, interpretation of German drama, practice of dramatic elocution and performance.

**Requisites:** A 300-level German lit crse with B or better, or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GERMAN 645 – CULTUURKUNDE DER LAGE LANDEN**  
3-4 credits.

Theory and analysis of such topics as: construction of Dutch and Belgian identities; medieval culture; the Dutch Revolt and Golden Age; colonialism, anti-colonialism, post-colonialism; immigration and emigration; Dutch and Flemish regionalism vis-a-vis Europeanization and globalization. Taught primarily in Dutch.

**Requisites:** GERMAN 314 or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**GERMAN 650 – HISTORY OF THE GERMAN LANGUAGE**  
3 credits.

Overview of the history of the German language; basic methodological and bibliographical training necessary for work in German philology/linguistics and the older Germanic languages.

**Requisites:** Sr st or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GERMAN/MEDIEVAL 651 – INTRODUCTION TO MIDDLE HIGH GERMAN**  
3 credits.

**Requisites:** Advanced knowledge of German

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**GERMAN/COM ARTS 655 – GERMAN FILM**

3 credits.

Important filmmakers from 1910 to the present; their relation to German cultural and social history of the period. For com arts cr. Com Arts 350

**Requisites:** For German cr. one 300 level crse or above; or cons inst.

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**GERMAN 676 – ADVANCED SEMINAR IN GERMAN STUDIES**

3 credits.

Topics will vary. Each seminar will focus on a topic in German studies. Research opportunity for advanced students. Honors credit available.

**Requisites:** GERMAN 337 2 additional adv German crses or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**GERMAN 677 – SEMINAR IN GERMAN CULTURE STUDIES**

3 credits.

Texts of a specific period of German cultural history (e.g., the Romantic era, the Baroque) are analyzed. Honors credit available.

**Requisites:** GERMAN 410 or 411 or 601 or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**GERMAN 681 – SENIOR HONORS THESIS-FIRST SEMESTER**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**GERMAN 682 – SENIOR HONORS THESIS-SECOND SEMESTER**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**GERMAN 683 – SENIOR HONORS SEMINAR IN GERMAN LITERATURE**

3 credits.

Preparation of a seminar paper as a basis for a possible Honors Thesis. Stdts may receive degree cr for no more than one of the following:

German 673 or 683

**Requisites:** GERMAN 385 or cons inst.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**GERMAN 698 – DIRECTED STUDY**

1-6 credits.

**Requisites:** Graded on a Cr/N basis; requires cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**GERMAN 699 – DIRECTED STUDY**

1-6 credits.

**Requisites:** Graded on a lettered basis; requires cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**GERMAN 701 – LITERATURE OF THE MIDDLE AGES (750-1400)**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**GERMAN 703 – 18TH CENTURY GERMAN LITERATURE**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**GERMAN 708 – 19TH CENTURY GERMAN LITERATURE**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**GERMAN 709 – GERMAN LITERATURE OF THE 20TH AND 21ST CENTURIES**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**GERMAN 711 – SPECIAL TOPICS IN GERMAN LITERATURE**

3 credits.

May be repeated for different topics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**GERMAN 720 – COLLEGE TEACHING OF GERMAN**

1 credit.

**Requisites:** Teaching assistantship in German**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**GERMAN 722 – THEORY OF TEACHING GERMAN**

2 credits.

Theory and methodology of teaching German as a second language.

**Requisites:** GERMAN 720 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**GERMAN 723 – PRACTICUM IN TEACHING UNDERGRADUATE LITERATURE**

1-2 credits.

Observation and discussion of undergraduate literature course. Consideration of pedagogical issues and limited opportunity for practice teaching. D. stdt; teaching experience; cons inst

**Requisites:** Ph.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**GERMAN 724 – PRACTICUM IN TEACHING UNDERGRADUATE LINGUISTICS**

1-2 credits.

Observation and discussion of undergraduate linguistics course. Consideration of pedagogical issues and limited opportunity for practice teaching. D. stdt; teaching experience; cons inst

**Requisites:** Ph.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**GERMAN 725 – PRACTICUM IN TEACHING UNDERGRADUATE CULTURE**

1-2 credits.

Observation and discussion of undergraduate culture course. Consideration of pedagogical issues and limited opportunity for practice teaching. D. stdt; teaching experience; cons inst

**Requisites:** Ph.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**GERMAN 727 – TOPICS IN APPLIED LINGUISTICS**

3 credits.

Selected issues in language acquisition and language teaching.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GERMAN 741 – TOPICS IN GERMAN CULTURAL THEORY**

3 credits.

Selected topics focus on theoretical issues in textual interpretation and cultural analysis.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2008**GERMAN 742 – TOPICS IN GERMAN CULTURAL STUDIES**

3 credits.

Selected topics in German culture.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**GERMAN/MEDIEVAL 755 – OLD GERMANIC LANGUAGES**

3 credits.

Old High German, Old Saxon, and Gothic on a rotating basis; may be repeated for different languages.

**Requisites:** Cons inst or GERMAN/MEDIEVAL 651**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**GERMAN 758 – TOPICS IN CONTEMPORARY GERMAN**

3 credits.

Topics announced; may be repeated for different topics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**GERMAN 768 – COMPARATIVE AND HISTORICAL GRAMMAR OF THE OLD GERMANIC LANGUAGES**

3 credits.

General characteristics of the Old Germanic languages, especially in phonology; methods of reconstruction.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**GERMAN 799 – INDEPENDENT STUDY**

1-6 credits.

Advanced study under guidance.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**GERMAN/FRENCH/HISTORY/POLI SCI/SOC 804 – INTERDISCIPLINARY WESTERN EUROPEAN AREA STUDIES SEMINAR**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**GERMAN 940 – SEMINAR IN GERMAN LITERATURE**

3 credits.

Second semester of introductory sequence. Continues integrated discussion of literary texts/topics and methodological issues at a more advanced level. Required for literature students. Taught each spring semester.

**Requisites:** German 939

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2013

**GERMAN 947 – SEMINAR IN GERMAN LITERATURE AND CULTURE**

3 credits.

Subjects announced.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**GERMAN 948 – SEMINAR IN GERMAN LITERATURE AND CULTURE**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**GERMAN 960 – SEMINAR IN GERMAN LINGUISTICS**

3 credits.

Topic from a core area of linguistics, with integrated discussion of methodological approaches; bibliographical skills; basics of linguistic scholarship. Required for linguistics students. Taught each spring semester.

**Requisites:** German 939

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**GERMAN 970 – ADVANCED SEMINAR IN GERMAN LINGUISTICS**

3 credits.

Subjects announced.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**GERMAN 990 – INDIVIDUAL RESEARCH IN LITERATURE**

1-9 credits.

Conference hours to be arranged with the chairman.

**Requisites:** Consent of instructor;

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**GERMAN 991 – INDIVIDUAL RESEARCH LINGUISTICS AND GERMANIC PHILOLOGY**

1-9 credits.

Conference hours to be arranged with chairperson.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**GERMAN, NORDIC, AND SLAVIC (GNS)****GREEK (CLASSICS) (GREEK)****GREEK 103 – FIRST SEMESTER GREEK**

4 credits.

Open to All Undergrads

**Requisites:** Not open to students who have had GREEK 303.

**Course Designation:** Frgn Lang - 1st semester language course Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GREEK 104 – SECOND SEMESTER GREEK**

4 credits.

**Requisites:** GREEK 103, Open to Fr or So**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GREEK 105 – MODERN GREEK-FIRST SEMESTER**

1-4 credits.

An introduction to conversational Modern Greek.

**Requisites:** Open to Fr**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2009**GREEK 303 – FIRST SEMESTER GREEK**

3-4 credits.

Forms and syntax, reading of easy Greek prose.

**Requisites:** Jr st or cons inst; 3 cr for Grad students**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GREEK 304 – SECOND SEMESTER GREEK**

3-4 credits.

Continuation of 303.

**Requisites:** GREEK 303; 3 cr for Grad students**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GREEK 305 – INTERMEDIATE GREEK**

3 credits.

Selections from Plato's Dialogues, the New Testament, Homer's Iliad, and Herodotus.

**Requisites:** GREEK 104 or 304**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Frgn Lang - 3rd semester language course

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GREEK 306 – INTERMEDIATE GREEK**

3 credits.

Continuation of 305.

**Requisites:** GREEK 305**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Frgn Lang - 4th semester language course

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**GREEK 401 – GREEK DRAMA**

3 credits.

Selected plays of Euripides or Sophocles; selections from the lyric poets.

**Requisites:** GREEK 305-306**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**GREEK 402 – GREEK DRAMA AND LYRIC POETRY**

3 credits.

Continuation of 401.

**Requisites:** GREEK 401**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2010**GREEK 505 – ELEMENTARY PROSE COMPOSITION**

3 credits.

**Requisites:** Cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**GREEK 510 – HOMER**

3 credits.

Extensive reading in both Iliad and Odyssey.

**Requisites:** GREEK 401 and 402 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2012

**GREEK 511 – HESIOD**

3 credits.

The writings of Hesiod in Greek.

**Requisites:** GREEK 306 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014**GREEK 512 – GREEK LYRIC POETS**

3 credits.

The complete corpus of Alcman, Ibycus, Stesichorus, Sappho, Alcaeus, Corinna, Anacreon, Praxilla, and Simonides. Selections from Bacchylides and Pindar.

**Requisites:** GREEK 401-402 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**GREEK 520 – GREEK COMEDY**

3 credits.

Close reading of several plays with attention to Aristophanes' lyric genius and political opinions.

**Requisites:** GREEK 401 and 402 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**GREEK 521 – GREEK TRAGEDY**

3 credits.

Close reading of selected plays of Aeschylus, Sophocles or Euripides.

**Requisites:** GREEK 401 and 402 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**GREEK 532 – THUCYDIDES**

3 credits.

Continuation of 531.

**Requisites:** GREEK 401 and 402 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**GREEK 541 – PLATO**

3 credits.

Exploration in original language of major topics in Platonic philosophy.

**Requisites:** GREEK 401 and 402 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2009**GREEK 551 – ATTIC ORATORS**

3 credits.

Selected masterpieces from Antiphon to Hypereides, with emphasis upon the contribution of rhetoric to the intellectual life of the fourth century.

**Requisites:** GREEK 401 and 402 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**GREEK 560 – HELLENISTIC GREEK**

3 credits.

A selection of texts, chiefly religious in content, pagan, Jewish, and Christian.

**Requisites:** GREEK 401 and 402 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016



**GREEK 564 – PLUTARCH**

3 credits.

**Requisites:** GREEK 401 and 402 or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**GREEK 681 – HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**GREEK 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**GREEK 691 – SENIOR THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2005

**GREEK 692 – SENIOR THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 1999

**GREEK 699 – DIRECTED STUDY**

1-3 credits.

Graded on lettered basis; requires cons inst

**Requisites:** Jr or Sr st.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

**GREEK 801 – SURVEY OF GREEK LITERATURE**

3 credits.

Surveys a substantial portion of Ancient Greek Literature, from the Archaic Age through the Roman Imperial Period. Readings in primary sources and secondary literature are selected from the reading lists for Classics in the PhD program in Classical and Ancient Near Eastern Studies.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**GREEK 890 – INDIVIDUAL RESEARCH THESIS**

1-12 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**GREEK 910 – SEMINAR-POETRY**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**GREEK 920 – SEMINAR-DRAMA**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**GREEK 930 – SEMINAR-HISTORY**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**GREEK 970 – SEMINAR-RELATED FIELDS**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

## HEBREW-BIBLICAL (HEBR-BIB)

### HEBR-BIB 103 – ELEMENTARY BIBLICAL HEBREW, I 4 credits.

Introduction to the language of the Hebrew Bible (first semester of Biblical Hebrew). Serves as basis for later forms of Classical Hebrew.

**Requisites:** None

**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### HEBR-BIB 104 – ELEMENTARY BIBLICAL HEBREW, II 4 credits.

Second semester of Biblical Hebrew. Continuation of Hebrew 103.

**Requisites:** Hebrew 103

**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### HEBR-BIB 303 – ELEMENTARY BIBLICAL HEBREW, I 3 credits.

Introduction to the language of the Hebrew Bible (first semester of Biblical Hebrew). Serves as basis for later forms of Classical Hebrew. Students may not enroll in both Hebrew-Biblical 103 and 303.

**Requisites:** Junior or graduate standing

**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### HEBR-BIB 304 – ELEMENTARY BIBLICAL HEBREW, II 3 credits.

Second semester of Biblical Hebrew. Continuation of Hebrew-Biblical 303. Students may not enroll in both Hebrew-Biblical 104 and 304.

**Requisites:** Junior or graduate standing

**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### HEBR-BIB 323 – INTERMEDIATE BIBLICAL HEBREW, I 4 credits.

Third semester of Biblical Hebrew. Review of grammar, introduction to reading narrative texts.

**Requisites:** Hebrew-Biblical 104

**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### HEBR-BIB 324 – INTERMEDIATE BIBLICAL HEBREW, II 4 credits.

Fourth semester of Biblical Hebrew. Continuation of 323.

**Requisites:** Hebrew Biblical 323

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### HEBR-BIB/CLASSICS/JEWISH/LITTRANS/RELIG ST 332 – PROPHETS OF THE BIBLE 4 credits.

An introduction to the thought, literature, and history of the prophets of ancient Israel (in English).

**Requisites:** CLASSICS/JEWISH/LITTRANS/RELIG ST/CLASSICS/JEWISH/LITTRANS 227 or Sophomore standing

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

### HEBR-BIB/JEWISH 452 – BIBLICAL ARCHAEOLOGY 2 credits.

Continuation of 451.

**Requisites:** Junior standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

### HEBR-BIB/JEWISH 513 – BIBLICAL TEXTS, POETRY 3 credits.

Critical reading of selected texts from the Minor Prophets and the Writings.

**Requisites:** HEBR-BIB 324

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### HEBR-BIB/JEWISH 514 – BIBLICAL TEXTS, POETRY 3 credits.

Continuation of 513.

**Requisites:** HEBR-BIB/JEWISH 513

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**HEBR-BIB 641 – THE BOOK OF EZEKIEL**

3 credits.

Philological and literary study of the Hebrew text. Readings in the ancient translations.

**Requisites:** Hebrew-Biblical 514**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2008**HEBR-BIB 700 – ADVANCED NEAR EASTERN LANGUAGES**

3 credits.

Provides graduate-level instruction in languages required for research in the literature, history, and culture of the Ancient Near East. Languages typically offered include Akkadian, Phoenician, Sumerian, Hittite, and Egyptian.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HEBR-BIB 701 – ARAMAIC I**

3 credits.

Grammar and readings in Biblical Aramaic (Daniel, Ezra).

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**HEBR-BIB 702 – ARAMAIC II**

3 credits.

Selections from non-biblical Aramaic texts: Inscriptions, Elephantine letters, Ahiqar, Targumim.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**HEBR-BIB 703 – UGARITIC TEXTS**

3 credits.

Readings in mythological, administrative, and epistolary texts from Ras Shamra-Ugarit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**HEBR-BIB 704 – CANAANITE DIALECTS**

3 credits.

Phoenician, Punic, Moabite, and Hebrew epigraphic texts.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**HEBR-BIB 705 – SYRIAC I**

3 credits.

Syriac grammar and reading.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**HEBR-BIB 706 – SYRIAC II**

3 credits.

Readings in Peshitta, literary texts.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**HEBR-BIB 723 – CLASSICAL HEBREW LINGUISTICS: HISTORICAL AND DESCRIPTIVE**

3 credits.

The phonology, morphology and syntax of biblical Hebrew; viewed from historical and descriptive linguistic perspectives.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**HEBR-BIB 743 – PENTATEUCHAL NARRATIVES**

3 credits.

Philological and literary study of the Hebrew narratives in Genesis through Deuteronomy, with readings in the ancient translations.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**HEBR-BIB 744 – PENTATEUCHAL LEGAL CODES**

3 credits.

A philological and comparative study, in Hebrew, of legal codes embedded in the narratives of Exodus, Leviticus, and Deuteronomy.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015

**HEBR-BIB 751 – THE BOOK OF ISAIAH**

3 credits.

Philological and literary study of the Hebrew text. Readings in the ancient translations.

**Requisites:** Hebrew 514 or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**HEBR-BIB 752 – THE BOOK OF ISAIAH**

3 credits.

Continuation of 651.

**Requisites:** Hebrew 751

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HEBR-BIB 753 – WISDOM LITERATURE: PROVERBS AND QOHELET**

3 credits.

Philological and literary study selections from the Hebrew text of Proverbs, Qohelet, and other works. Readings in the ancient translations.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**HEBR-BIB 754 – WISDOM LITERATURE: JOB**

3 credits.

Philological and literary study of the Hebrew text of Job. Readings in the ancient translations.

**Requisites:** Graduate or professional standing

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**HEBR-BIB 755 – PSALMS**

3 credits.

Philological and linguistic study of the Book of Psalms in Hebrew, with readings in the ancient translations. Special attention will be given to the book's bearing on our understanding of ancient Israelite religion(s).

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**HEBR-BIB 799 – INDEPENDENT STUDY**

1-3 credits.

Consent of chairperson required.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**HEBR-BIB 951 – SEMINAR-BIBLICAL STUDIES**

2 credits.

Topics vary.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**HEBR-BIB/JEWISH 954 – THE DEAD SEA SCROLLS**

2 credits.

Research in the literature, religion, and society of the Qumran community.

**Requisites:** 2 yrs of Biblical Hebrew Graduate standing, or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**HEBR-BIB/JEWISH 956 – SEMINAR IN EARLY BIBLICAL INTERPRETATION**

2 credits.

A study of the forms and content of biblical interpretation in Ancient Israelite and Jewish texts. The focus is on three broad domains of literature: the Hebrew Bible, Second Temple sources, and rabbinic midrash.

**Requisites:** 2 yrs of Biblical Hebrew Grad standing, or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**HEBR-BIB 990 – RESEARCH AND THESIS**

2-9 credits.

**Requisites:** Consent of instructor;

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

## HEBREW-MODERN (HEBR-MOD)

### HEBR-MOD 101 – FIRST SEMESTER HEBREW

4 credits.

For students with little or no previous knowledge of Hebrew. Basic communication skills; speaking, reading, writing modern Hebrew; elements of grammar and syntax.

**Requisites:** None

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### HEBR-MOD 102 – SECOND SEMESTER HEBREW

4 credits.

Continuation of 101.

**Requisites:** Hebrew Mod 101

**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### HEBR-MOD 201 – THIRD SEMESTER HEBREW

4 credits.

Readings from modern Hebrew texts, intermediate grammar and syntax, development of oral proficiency, emphasis on class discussions.

**Requisites:** Hebrew Mod 102

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### HEBR-MOD 202 – FOURTH SEMESTER HEBREW

4 credits.

Continuation of 201.

**Requisites:** Hebrew Mod 201

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### HEBR-MOD/JEWISH 301 – INTRODUCTION TO HEBREW LITERATURE

3 credits.

Selected works for different periods and genres; class discussions in Hebrew.

**Requisites:** Jewish Studies 202

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### HEBR-MOD/JEWISH 302 – INTRODUCTION TO HEBREW LITERATURE

3 credits.

Continuation of 301.

**Requisites:** Jewish Studies 301

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### HEBR-MOD/JEWISH 401 – TOPICS IN MODERN HEBREW / ISRAELI LITERATURE AND CULTURE I

3 credits.

Readings in Hebrew literature, class conducted in Hebrew.

**Requisites:** Jewish Studies 302.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### HEBR-MOD/JEWISH 402 – TOPICS IN MODERN HEBREW / ISRAELI LITERATURE AND CULTURE II

3 credits.

Continuation of 401.

**Requisites:** Jewish Studies 401

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

## HISTORY (HISTORY)

### HISTORY 101 – AMER HIST TO THE CIVIL WAR ERA, THE ORIGIN & GROWTH OF THE U S

4 credits.

American political, economic, and social development from the founding of the colonies to the Civil War.

**Requisites:** Open to All Undergrads

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HISTORY 102 – AMERICAN HISTORY, CIVIL WAR ERA TO THE PRESENT**  
4 credits.

American political, economic and social development from the Civil War to the present.

**Requisites:** Open to All Undergrads

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HISTORY/E A STDS 103 – INTRODUCTION TO EAST ASIAN HISTORY:  
CHINA**

3-4 credits.

Survey of major developments in Chinese history from 1500 B.C. to the founding of the Communist state in 1949. Emphasis on patterns and themes; equal time devoted to the classical and traditional period and the modern era.

**Requisites:** Open to All Undergrads

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HISTORY/E A STDS 104 – INTRODUCTION TO EAST ASIAN HISTORY:  
JAPAN**

3-4 credits.

Survey of major cultural, social, political and economic developments in Japanese history from ancient to recent times.

**Requisites:** Open to All Undergrads

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HISTORY 105 – INTRODUCTION TO THE HISTORY OF AFRICA**

3-4 credits.

Major historic and current problems in African life, as seen by Africans.

**Requisites:** Open to All Undergrads

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HISTORY/ED POL 107 – THE HISTORY OF THE UNIVERSITY IN THE  
WEST**

3-4 credits.

The history of the university in the Western world from its beginnings in the 10th century to the present. Concentrates on universities, students, and professors in Italy, France, England, Germany, and the United States.

**Requisites:** Open to All Undergrads

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 1989

**HISTORY 108 – INTRODUCTION TO EAST ASIAN HISTORY - KOREA**

3-4 credits.

Survey of major cultural, social, political, and intellectual developments in Korea from the 10th century to the 21st century.

**Requisites:** None

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HISTORY 109 – INTRODUCTION TO U.S. HISTORY**

3-4 credits.

Exploration of a thematic or chronological area of United States history from a variety of critical historical perspectives. Topics vary by instructor.

**Requisites:** None

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**HISTORY/CLASSICS 110 – THE ANCIENT MEDITERRANEAN**

4 credits.

An examination of the evolution of the human community in the Mediterranean Basin, from the beginning of the earliest civilizations in the Near East (3,000 B.C.E.) until the collapse of the Roman Empire in the West (500 C.E.).

**Requisites:** Open to all Undergrads

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**HISTORY 111 – CULTURE & SOCIETY IN THE ANCIENT MEDITERRANEAN**

3-4 credits.

This course provides students with a thematic and cross-cultural introduction to the ancient Mediterranean world from prehistoric times to Late Antiquity. Students will gain a sense of chronological change and cultural diversity by looking at a series of case studies arranged around a weekly theme. These examine the connectivity and isolation of communities across the Mediterranean world, varieties of political organization and social relations, as well as economic structures.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**HISTORY/MEDIEVAL/RELIG ST 112 – THE WORLD OF LATE ANTIQUITY (200-900 C.E.)**

4 credits.

History of the Mediterranean World from the late Roman Empire to the development of distinct European, Byzantine and Islamic civilizations (ca. 200-900 CE). Special attention will be paid to the rise and development of Christianity and Islam.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2012**HISTORY 115 – MEDIEVAL EUROPE 410-1500**

4 credits.

From the later Roman Empire to the end of the Middle Ages.

**Requisites:** Open to All Undergrads**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY 118 – EARLY MODERN WORLD**

3-4 credits.

An introduction to world history, 1450-1800, when new connections were forged between continents and, arguably, "the world" became one place. We shall study travelers, merchants, refugees, and empires, and the objects that bound them together: Ming porcelain and silk, woolen blankets and calico, silver and cochineal. We shall explore changing understandings of boundaries, oceans, travel, and "the world" itself.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**HISTORY 119 – THE MAKING OF MODERN EUROPE 1500-1815**

4 credits.

Principal developments in the history of Europe from the Renaissance to the fall of Napoleon.

**Requisites:** Open to All Undergrads**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY 120 – EUROPE AND THE MODERN WORLD 1815 TO THE PRESENT**

4 credits.

Political, economic, social, and cultural history of modern Western civilization.

**Requisites:** Open to All Undergrads**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY 123 – ENGLISH HISTORY: ENGLAND TO 1688**

3-4 credits.

Political, economic, social, and cultural history from earliest historic times.

**Requisites:** Open to All Undergrads**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY 124 – BRITISH HISTORY: 1688 TO THE PRESENT**

4 credits.

Political, economic, social, and cultural history of Great Britain.

**Requisites:** Open to All Undergrads**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016

**HISTORY/ENVIR ST/HIST SCI 125 – GREEN SCREEN: ENVIRONMENTAL PERSPECTIVES THROUGH FILM**

3 credits.

From Teddy Roosevelt's 1909 African safari to the Hollywood blockbuster King Kong, from the world of Walt Disney to The March of the Penguins, cinema has been a powerful force in shaping public and scientific understanding of nature throughout the twentieth and twenty-first century. How can film shed light on changing environmental ideas and beliefs in American thought, politics, and culture? And how can we come to see and appreciate contested issues of race, class, and gender in nature on screen? This course will explore such questions as we come to understand the role of film in helping to define the contours of past, present, and future environmental visions in the United States, and their impact on the real world struggles of people and wildlife throughout the world.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY/AFRICAN 129 – AFRICA ON THE GLOBAL STAGE**

3-4 credits.

Explores the interplay between Africa and the World from the 19th century to the present, covering subjects such as the slave- trade, repatriation, Africanizing of culture in the Americas and Europe, the spread and revival of world religions, colonialism, global capitalism, the rise of global popular culture such as pop music and video films, environmental concerns and global epidemics.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**HISTORY 130 – AN INTRODUCTION TO WORLD HISTORY**

3-4 credits.

Introduction to major themes in world history. Such themes might include: empire and imperialism, environmental impacts, global trade and globalization, war, migration, gender, race, religion, nationalism, class, and the like.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY/RELIG ST 131 – INTRODUCTION TO CHRISTIANITY: JESUS TO THE PRESENT**

4 credits.

Survey of Christianity from its beginnings to its diverse global manifestations today, including beliefs, institutions, ritual, lived experience, and interactions with broader culture and society.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**HISTORY/GEN&WS 134 – WOMEN AND GENDER IN WORLD HISTORY**

3-4 credits.

A global (comparative and transnational) survey of women and gender from the ancient world to the modern period. Introduces students to key issues in the history of women and gender, including the historical construction of identities, roles, symbols, and power relationships.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY 135 – COLLOQUIUM IN COMPARATIVE WORLD HISTORY**

4 credits.

**Requisites:** Open to All Undergrads**Course Designation:** Breadth - Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**HISTORY 136 – SPORT, RECREATION, & SOCIETY IN THE UNITED STATES**

3-4 credits.

As much as we may try to convince ourselves that sport offers an escape from the "real world," constant news of players' strikes, stadium financing controversies, and the lack of diversity in league management remind us that we cannot separate the games we play and watch from the political, social, and cultural contexts in which they are embedded. With this in mind, this course explores how sport has shaped and been shaped by major trends in American social, political, and economic history. Lectures and discussion sections will not focus on player stats or the morning edition of SportsCenter. Instead, students will engage with serious historical arguments and debates about sport's relationship to American capitalism, social movements, and urban development. Readings also provide a diverse set of perspectives on the politics of race, gender, and class in American sport in the twentieth century. Non-sports fans are welcome and encouraged to enroll!

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016

**HISTORY 139 – THE MIDDLE EAST IN THE 20TH CENTURY**

3-4 credits.

Partition of the Ottoman Empire; rise of independent states; French, British, United States, and Soviet involvement; the cold war; Arab-Israeli conflict.

**Requisites:** Open to All Undergrads except first semester Fr**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**HISTORY 142 – HISTORY OF SOUTH ASIA TO THE PRESENT**

3-4 credits.

Survey of the development of societies within the Indian subcontinent. Equal segments for the ancient, medieval and modern periods. Open to all undergrads.

**Requisites:** Open to All Undergrads**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2013**HISTORY/LCA 144 – TRAVELING THE WORLD: SOUTH ASIANS IN DIASPORA**

4 credits.

Millions of South Asians left their home in the Indian subcontinent to travel the world across the Indian Ocean to Africa, the Middle East and Southeast Asia; across the Atlantic Ocean to the Caribbean and Britain; and across the Pacific Ocean to Fiji and California. This course follows these Indian traders, political leaders, workers and pilgrims as they discovered the world beyond India. The cultural, social, economic and political experiences of these sojourners and settlers reveals an exciting transnational perspective on the history of migration, diaspora, nationalism and colonialism in India, Africa, Asia, America and Britain.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**HISTORY 150 – AMERICAN HISTORIES: THE NINETEENTH CENTURY**

4 credits.

An introduction to the major themes of U.S. history from nationhood to emergence as a world power. An exploration of the range of primary sources available to U.S. historians and the varieties of historical argument.

**Requisites:** Open to Fr**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**HISTORY/ASIAN AM 160 – ASIAN AMERICAN HISTORY: MOVEMENT AND DISLOCATION**

3-4 credits.

Examines the impact of colonialism, war, and capitalism on the movement of Asians to the U.S. Considers how racial, gendered, class, sexual, and national formations within the U.S. structured Asian immigration to North America.

**Requisites:** Open to Freshmen**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**HISTORY/ASIAN AM 161 – ASIAN AMERICAN HISTORY: SETTLEMENT AND NATIONAL BELONGING**

3-4 credits.

Examines the social, cultural, and political citizenship of Asians in the U.S. with particular emphasis on diaspora, transnationality, and place.

**Requisites:** Open to Freshmen**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY 199 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Open to Fr So with cons inst**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**HISTORY 200 – HISTORICAL STUDIES**

3-4 credits.

Introduction to historical studies at the research university. Emphasis on interpretation and critical thinking. Small-group discussion and intensive writing. Topics vary.

**Requisites:** Sophomore standing or one class in HISTORY**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**HISTORY 201 – THE HISTORIAN'S CRAFT**

3-4 credits.

Students conduct original historical research and convey the results to others. Through engagement with archival materials, undergraduates become historical detectives; they practice defining important historical questions, collecting and analyzing evidence, presenting original conclusions, and contributing to ongoing discussions. Students confer individually with and receive feedback from instructors to improve their skills of historical analysis and communication in both written and spoken formats. Requirements include at least 30 pages of writing - including drafts - and two or more formal oral presentations, each totaling at least five minutes. Upon successful completion of this course, students will be prepared to undertake historical research and writing in a variety of courses, including the HIST 600 capstone seminar.

**Requisites:** Com A or equivalent**Course Designation:** Gen Ed - Communication Part B

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY/LCA/RELIG ST 205 – THE MAKING OF THE ISLAMIC WORLD: THE MIDDLE EAST, 500-1500**

3-4 credits.

Development of society and culture in the Middle East and North Africa from the emergence of Islam (7th century) to early modern times.

**Requisites:** Open to All Undergrads**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY/RELIG ST 208 – WESTERN INTELLECTUAL AND RELIGIOUS HISTORY TO 1500**

3-4 credits.

Survey of key themes in Western intellectual history and religious thought from ancient Greece through the Renaissance, focusing on relationships among classical, Jewish, and Christian traditions.

**Requisites:** Sophomore standing or one HISTORY course or one REL ST course**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**HISTORY/RELIG ST 209 – WESTERN INTELLECTUAL AND RELIGIOUS HISTORY SINCE 1500**

3-4 credits.

A survey of major trends in Western intellectual history and religious thought in the modern era, a period that saw a new range of competing ideas about the divine, the human condition, justice and the social order, and the quest for meaning. The course explores shifts in Christian and Jewish thought as well as secular alternatives to religious outlooks. Topics include the impact of the Reformation, Scientific Revolution, and Enlightenment; radical critiques of religion; existentialism; theological responses to World Wars and the Holocaust; and civil rights and social justice. Sources include films, novels, autobiographies, essays, theological works, and political manifestos.

**Requisites:** Sophomore standing or one HISTORY class or one REL ST class**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**HISTORY/RELIG ST 212 – THE HISTORY OF WESTERN CHRISTIANITY TO 1750**

4 credits.

A survey of Christianity from being a small, persecuted sect in the Roman Empire to becoming the dominant religion of western Europe, penetrating into the lives of Europeans, fissuring into multiple churches, and spreading across the globe. Attention is given to doctrine, ritual, worship, architecture, images, and music.

**Requisites:** Sophomore standing or consent of instructor**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**HISTORY/JEWISH 213 – JEWS AND AMERICAN POP. CULTURE**

3-4 credits.

Explores the interplay between Jews and U. S. popular culture, covering such subjects as early 20th century vaudeville, the "golden age" of Hollywood, rhythm and blues music, television, and stand-up comedy.

**Requisites:** None**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017

**HISTORY/MEDIEVAL 215 – LIFE IN THE MIDDLE AGES: AN INTER-DEPARTMENTAL COURSE**

3-4 credits.

An introduction to the life and culture of the Middle Ages with lectures from members of the departments offering courses within the Medieval Studies Program.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2009**HISTORY/JEWISH 219 – THE AMERICAN JEWISH EXPERIENCE: FROM SHTETL TO SUBURB**

4 credits.

Surveys American Jews from the eighteenth century until after WW II, examining political behavior (radicalism, liberalism, and nationalism), class formation, social mobility, culture, inter-ethnic group relations, religion, and problems in community building.

**Requisites:** Open to Fr**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY/JEWISH 220 – INTRODUCTION TO MODERN JEWISH HISTORY**

4 credits.

The history of the Jews in selected parts of the world since the 17th century. Particular attention will be paid to the fact that this is the history of a minority group whose life unfolds in relationship to a larger society.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY 221 – EXPLORATIONS IN AMERICAN HISTORY (H)**

3-4 credits.

Topics vary reflecting the interests, expertise, and innovating intention of the instructor. May receive credit only once for each topic taken

**Requisites:** Sophomore standing.**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HISTORY 223 – EXPLORATIONS IN EUROPEAN HISTORY (H)**

3-4 credits.

Topics vary reflecting the interests, expertise, and innovating intention of the instructor. May receive credit only once for each topic taken

**Requisites:** Sophomore standing.**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HISTORY 224 – EXPLORATIONS IN EUROPEAN HISTORY (S)**

3 credits.

Topics vary reflecting the interests, expertise, and innovating intention of the instructor. May receive credit only once for each topic taken

**Requisites:** So st.**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**HISTORY 225 – EXPLORATIONS IN THIRD WORLD HISTORY (H)**

3-4 credits.

Topics vary reflecting the interests, expertise, and innovating intention of the instructor. May receive credit only once for each topic taken

**Requisites:** Sophomore standing.**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HISTORY 227 – EXPLORATIONS IN THE HISTORY OF RACE AND ETHNICITY**

3 credits.

Topics on racial/ethnic minorities in the US in historical perspective; or topics that intersect with race or ethnicity in the US; or comparative historical topics that address how racial/ethnic minorities in the US negotiate exclusion and marginalization.

**Requisites:** None**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016

**HISTORY 228 – EXPLORATIONS IN TRANSNATIONAL/COMPARATIVE HISTORY (SOCIAL SCIENCE)**

3 credits.

Explores topics that involve at least two continents. Topics vary reflecting the interests, expertise, and innovating intention of the instructor. May receive credit only once for each topic taken

**Requisites:** Sophomore standing.**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**HISTORY 229 – EXPLORATIONS IN TRANSNATIONAL/COMPARATIVE HISTORY (HUMANITIES)**

3 credits.

Explores topics that involve at least two continents. Topics vary reflecting the interests, expertise, and innovating intention of the instructor. May receive credit only once for each topic taken

**Requisites:** Soph St.**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HISTORY/RELIG ST 230 – JUDAISM, CHRISTIANITY, AND ISLAM: BRAIDED HISTORIES**

3 credits.

An examination of the braided histories of Judaism, Christianity and Islam from 2000 BCE to 2000 CE, emphasizing their theological, cultural, and political relationships.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**HISTORY 240 – COLONIAL LATIN AMERICA FROM CONQUEST TO INSURGENCY**

4 credits.

Pre-Columbian cultures; conquests by Spain and Portugal; socioeconomic, cultural, and political dynamics of colonial life; background of independence crisis.

**Requisites:** Open to all Undergrads**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**HISTORY 241 – LATIN AMERICA FROM 1780 TO 1940**

4 credits.

Latin America from the Age of Revolution to the World Depression. Nation-state formation; rise of political conflict and socioeconomic inequality.

**Requisites:** Open to all Undergrads**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**HISTORY 242 – MODERN LATIN AMERICA, 1898 TO THE PRESENT**

4 credits.

Human and political dynamics of state-directed development; neoliberalism. Nature and consequences of foreign intervention.

**Requisites:** Open to all Undergrads**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY/GEOG/LCA/POLI SCI/SOC 244 – INTRODUCTION TO SOUTHEAST ASIA: VIETNAM TO THE PHILIPPINES**

4 credits.

Southeast Asian history, religion, folklore and literatures, educational systems, and politics from the early classical states to contemporary social, literary, and political developments.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY/CHICLA/GEN&WS 245 – CHICANA AND LATINA HISTORY**

3 credits.

Introduces the cultural, economic, social, and political history of Chicanas and Latinas in the U.S. and focuses on four major themes: contact between different ethnic/racial groups; ideas of nation and nationalism; constructions of identity; and struggles for social justice.

**Requisites:** Open to Fr**Course Designation:** Gen Ed - Communication Part B

Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017



**HISTORY/ASIAN AM/LCA 246 – SOUTHEAST ASIAN REFUGEES OF THE "COLD" WAR**

4 credits.

In-depth study of the peoples, conflicts, and wars in Cambodia, Laos, and Vietnam, with emphasis on the Cold War era (1945-1990) and on the resulting migration and resettlement of over one million Hmong, Khmer, Lao, and Vietnamese in the United States.

**Requisites:** Open to Fr**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY 248 – GLOBALIZATION AND CRISES**

3-4 credits.

Since 2008, leaders and politicians have constantly been defining, avoiding and responding to political, economic and cultural crisis. Concern about crises is not new and learning about how people around the world have responded to crises in the past could definitely help us respond to our present crises and perhaps pave the way to a better future. This course will examine various economic, political, cultural and intellectual crises from the early modern period to the present, and focus on how people have tried to make sense of them and go beyond them. At the same time, we will attempt to provide a historical framework that takes into account discussions of globalization *avant la lettre*, such as Janet Abu-Lugod's now well-known *Beyond European Hegemony*.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**HISTORY/GEOG/LCA/POLI SCI/SOC 252 – THE CIVILIZATIONS OF INDIA-MODERN PERIOD**

4 credits.

Contemporary India society as a joint product of the classical heritage and world-wide movements toward nationalism; social and economic development.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY/GEOG/POLI SCI/SLAVIC 253 – RUSSIA: AN INTERDISCIPLINARY SURVEY**

4 credits.

Comprehensive interdisciplinary survey of Russian civilization from its beginnings through the present day.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY/GEOG/POLI SCI/SLAVIC 254 – EASTERN EUROPE: AN INTERDISCIPLINARY SURVEY**

4 credits.

Comprehensive interdisciplinary survey of East European culture, society, politics, and literature from its beginnings to the present day.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**HISTORY/E A STDS/POLI SCI 255 – INTRODUCTION TO EAST ASIAN CIVILIZATIONS**

3-4 credits.

Multidisciplinary and historical perspectives on the East Asian civilizations of China, Japan, Korea, Tibet and Mongolia from prehistory to the present, including developments in philosophy, economy, governance, social structure, kinship, geography, etc.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**HISTORY/AFROAMER/ANTHRO/C&E SOC/GEOG/LACIS/POLI SCI/SOC/SPANISH 260 – LATIN AMERICA: AN INTRODUCTION**

3-4 credits.

Latin American culture and society from an interdisciplinary perspective; historical developments from pre-Columbian times to the present; political movements; economic problems; social change; ecology in tropical Latin America; legal systems; literature and the arts; cultural contrasts involving the US and Latin America; land reform; labor movements; capitalism, socialism, imperialism; mass media.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY/LEGAL ST 261 – AMERICAN LEGAL HISTORY TO 1860**

3-4 credits.

This course surveys the development of American law down to the U.S. Civil War. After a review of the English historical background, it examines how law changed in colonial America, culminating in the framing of the U.S. Constitution. It then explores how territorial expansion, democracy, and slavery shaped nineteenth-century American law. Emphasis is on how law interacts with political, social, and cultural change, with a focus on the origins of modern civil and constitutional rights.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**HISTORY/LEGAL ST 262 – AMERICAN LEGAL HISTORY, 1860 TO THE PRESENT**

3-4 credits.

This course surveys the development of American law from the Civil War to the early Twenty-First Century. After a review of the U.S. Constitution and its modification by the Civil War amendments, it examines the legal dimensions of such topics as race relations and the Civil Rights movement, the growth of modern business, the New Deal, labor rights, the women's movement, the individual rights revolution of the postwar period, and the contemporary conservative reaction. Emphasis is on how law interacts with political, social, and cultural change.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY/ANTHRO/ART HIST/DS/LAND ARC 264 – DIMENSIONS OF MATERIAL CULTURE**

4 credits.

This course introduces students to the interdisciplinary field of material culture studies. It is intended for students interested in any professional endeavor related to material culture, including careers in museums, galleries, historical societies, historic preservation organizations, and academic institutions. During the semester, students have varied opportunities to engage with and contemplate the material world to which people give meaning and which, in turn, influences their lives. Sessions combine in some way the following: presentations from faculty members and professionals who lecture on a phase of material culture related to his/her own scholarship or other professional work; discussion of foundational readings in the field; visits to collections and sites on campus and around Madison; discussion of readings assigned by visiting presenters or the professors; and exams and short papers that engage material culture topics.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY/LCA 265 – AN INTRODUCTION TO CENTRAL ASIA: FROM THE SILK ROUTE TO AFGHANISTAN**

3 credits.

Examination of human geography, ethnicity, nomadism and pastoralism, oases cultures, religion and international politics of the silk routes of central Asia.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**HISTORY/E ASIAN/RELIG ST 267 – ASIAN RELIGIONS IN GLOBAL PERSPECTIVE**

3-4 credits.

Comparative and thematic introduction to diverse Asian religious traditions, ideas and communities, and their relevance to human societies of the past and present..

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY 269 – WAR, RACE, AND RELIGION IN EUROPE AND THE UNITED STATES, FROM THE SCRAMBLE FOR AFRICA TO TODAY**

3-4 credits.

This course investigates the complex history of European and American violence and war-making through the lens of race and religion. Taking a comparative approach, we analyze several major conflicts of the twentieth century, from World War I to the wars of decolonization, and from the genocide of the Herero peoples to the Armenian Genocide, the Holocaust, and beyond. How did religious forces and racial claims shape these conflicts? How did these wars reinforce the modern notion of the nation-state, and strengthen both racist and anti-racist movements? Key topics in the class include the genealogy of the modern idea of "race" in Europe and the U.S.; the drive towards a world of more homogeneous nation-states after World War I; and the emergence of transnational protest movements opposed to racism, imperialism, antisemitism, and Islamophobia. Drawing on a range of texts, songs, and films, the course will investigate new connections between Europe and the United States. Join us as we take an international look at concepts like race and nation, and try to make sense of extreme violence, war-making, and the pre-requisites of peace.

**Requisites:** Sophomore standing or one class in HISTORY**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**HISTORY 270 – EASTERN EUROPE SINCE 1900**

3-4 credits.

This class introduces students to the dramatic history of twentieth-century Eastern Europe, a place where imperialism, Nazism, Communism, genocide, democracy, and capitalism all left their mark. The course revolves around three interrelated themes—war, revolution, and society—all of which allow us to place Eastern Europe within broader comparative contexts. In addition to exploring significant political, economic, and cultural changes, we'll discover how ordinary people—including workers, peasants, women, and children—experienced attempts to change the region and its people. Throughout, we will discuss how East Europeans continue to wrestle with the ghosts of their past today.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**HISTORY 271 – HISTORY STUDY ABROAD: EUROPEAN HISTORY**

1-4 credits.

Topics vary reflecting the specializations, expertise, and curricula of study abroad programs.

**Requisites:** None**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**HISTORY 272 – HISTORY STUDY ABROAD: UNITED STATES HISTORY**

1-4 credits.

Topics vary reflecting the specializations, expertise, and curricula of study abroad programs.

**Requisites:** None**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**HISTORY 273 – HISTORY STUDY ABROAD: NON-WESTERN HISTORY**

1-4 credits.

Topics vary reflecting the specializations, expertise, and curricula of study abroad programs.

**Requisites:** None**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**HISTORY 274 – HISTORY STUDY ABROAD: TRANSNATIONAL/GLOBAL HISTORY**

1-4 credits.

Topics vary reflecting the specializations, expertise, and curricula of study abroad programs.

**Requisites:** Preparation for and participation in a UW-approved study abroad program**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**HISTORY 275 – TOPICS IN LGBT HISTORY**

3 credits.

Topics in the major issues and themes in lesbian, gay, bisexual, and transgender history, considered across race, class, nationality, and time.

**Requisites:** So st or cons inst**Course Designation:** Breadth - Either Humanities or Social Science  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**HISTORY/ASIAN AM/E A STDS 276 – CHINESE MIGRATIONS SINCE 1500**

3-4 credits.

Introduces the comparative history of Chinese migrations to the U.S. and world. Examines patterns of movement; imagined communities through cultural identity, citizenship, queerness, heritage tourism, studying abroad, and transnational adoption; as well as sites of cultural production such as food, literature, architecture, and cinema.

**Requisites:** Sophomore standing or consent of instructor**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY/AFRICAN/AFROAMER/ANTHRO/GEOP/POLI SCI/SOC 277 – AFRICA: AN INTRODUCTORY SURVEY**

4 credits.

African society and culture, polity and economy in multidisciplinary perspectives from prehistory and ancient kingdoms through the colonial period to contemporary developments, including modern nationalism, economic development and changing social structure.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY 278 – AFRICANS IN THE AMERICAS, 1492-1808**

3-4 credits.

Topics include demography and structure of the slave trade, but major focus on continuities and transformations of African cultures and social structures in the Americas—ethnicity, religion, kinship, gender, oral tradition, creolization, etc.

**Requisites:** So st**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY 279 – AFRO-ATLANTIC HISTORY, 1808-PRESENT**

3-4 credits.

Emphasis on the history of political, social, and intellectual movements. Topics include slave resistance, freedom, black nationalism, socialism, anti-colonialism, gender, religion, art, literature, race, and medicine.

**Requisites:** So st**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016

**HISTORY 283 – INTERMEDIATE HONORS SEMINAR-STUDIES IN HISTORY**

3 credits.

Honors, intermediate-level exploration of selected topics, featuring intensive reading, writing, and small-group discussion. Topics vary reflecting the interests, expertise, and innovating intention of the instructor.

**Requisites:** Consent of instructor**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HISTORY/AFRICAN/AFROAMER/POLI SCI 297 – AFRICAN AND AFRICAN-AMERICAN LINKAGES: AN INTRODUCTION**

4 credits.

Analysis of retention of African elements in African-American oral, written, and material culture. Social, cultural, and political issues regarding race, self-definition, and self-determination in both Africa and North America will be examined.

**Requisites:** None**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**HISTORY 302 – HISTORY OF AMERICAN THOUGHT, 1859 TO THE PRESENT**

3-4 credits.

How thinkers have coped with the intellectual shocks of Darwin, Marx, and Freud, and with cultural shocks ranging from Gilded Age industrialization to the changing mores and nuclear realities of contemporary mass society.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2011**HISTORY 303 – A HISTORY OF GREEK CIVILIZATION**

3-4 credits.

From the Bronze Age to the Hellenistic Age. Special emphases may vary with each offering.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**HISTORY 304 – UNITED STATES, 1877-1914**

3-4 credits.

The rise and impact of modern industrialism, organization of labor and farmers, disappearance of the frontier, growth of American imperialism, and the resulting political, intellectual, and social changes in America.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2012**HISTORY 305 – UNITED STATES 1914-1945**

3-4 credits.

Political, social, economic, and cultural changes in America during World War I, the Twenties, the Age of the Great Depression, World War II.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**HISTORY 306 – THE UNITED STATES SINCE 1945**

3-4 credits.

Political, social, economic, and cultural changes in the U.S. from World War II to the present.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2017**HISTORY 307 – A HISTORY OF ROME**

3-4 credits.

Roman civilization from the monarchy through the collapse of the Roman Empire in the west.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**HISTORY/E ASIAN/LCA/RELIG ST 308 – INTRODUCTION TO BUDDHISM**

3-4 credits.

The basic thought, practices and history of Buddhism, including selflessness and relativity, practices of meditation, merit-making and compassion from both local and translocal perspectives. Includes a discussion of Buddhism as a contemporary, North American religion.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY/MEDIEVAL/RELIG ST 309 – THE CRUSADES: CHRISTIANITY AND ISLAM**

3-4 credits.

An examination of the Crusades from both Christian and Islamic perspectives; the historical, social, and religious context and significance of the Crusades for both Christians and Muslims.

**Requisites:** So st**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**HISTORY/MEDIEVAL/RELIG ST 312 – THE MEDIEVAL CHURCH**

3-4 credits.

The course covers the formation and development of exlesiastical institutions and religious life in Western Europe from the fourth century to the Protestant Reformation.

**Requisites:** Open to Fr with cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2010**HISTORY/MEDIEVAL 313 – INTRODUCTION TO BYZANTINE HISTORY AND CIVILIZATION**

3-4 credits.

Topical consideration of the entire scope of the history of the Byzantine Empire, from the fourth to the fifteenth centuries, and selected aspects of its culture.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2012**HISTORY/MEDIEVAL 314 – PROBLEMS IN BYZANTINE HISTORY AND CIVILIZATION**

3-4 credits.

Intensive study of specific areas of the Byzantine Empire's history and culture, selected by agreement between instructor and students, stressing individual research efforts.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2009**HISTORY/GEN&WS 315 – GENDER, RACE AND COLONIALISM**

3 credits.

Investigates how gender and race were socially constructed in cultural encounters between Europeans and "other" peoples in Africa, Asia, and the Americas.

**Requisites:** Students must have taken Gender and Women's Studies 101 or Gender and Women's Studies 102**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**HISTORY/MEDIEVAL/RELIG ST 318 – MEDIEVAL SOCIAL AND INTELLECTUAL HISTORY, 1200-1450**

3-4 credits.

Emphasis on social change and intellectual developments.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2012**HISTORY 319 – THE VIETNAM WARS**

3-4 credits.

Explores the prolonged cycle of wars in Vietnam and its neighbors, 1940 to date, with due regard for both local and U.S. perspectives.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017



**HISTORY 320 – EARLY MODERN FRANCE, 1500-1715**

3-4 credits.

Social, cultural and political history of France (1500-1715): Renaissance; Reformation and Wars of Religion; Rise of absolutist monarchy; Popular culture and peasant life; Colonization and New France.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**HISTORY/AFROAMER 321 – AFRO-AMERICAN HISTORY SINCE 1900**

3-4 credits.

Survey of African American history from 1900 to the present. Topics covered include segregation, the Civil Rights Movement, the political, social and cultural changes of the late 20th century, and the Obama presidency.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY/AFROAMER 322 – AFRO-AMERICAN HISTORY TO 1900**

3-4 credits.

Survey of African American history from its roots in Africa to the end of the 19th century. Topics considered include the slave trade, the political and cultural practices of enslaved communities, forms of resistance, Reconstruction, and systems of segregation.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**HISTORY/HIST SCI 323 – THE SCIENTIFIC REVOLUTION: FROM COPERNICUS TO NEWTON**

3 credits.

An introduction to the formative period of modern science, including major ideas and events in the physical and life sciences from Copernicus to Newton. Grads enroll concurrently in Hist Sci 623

**Requisites:** Jr st or cons inst.**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY/HIST SCI 324 – SCIENCE IN THE ENLIGHTENMENT**

3 credits.

Development and triumph of Newton's gravitational law; the conceptual revolution in chemistry; earth history and the move from religious to natural cosmologies. 4th credit requires extra work.

**Requisites:** Jr st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**HISTORY/ENVIR ST 328 – ENVIRONMENTAL HISTORY OF EUROPE**

3 credits.

This class explores a new approach to a part of the world with a very old history, but one that is now as 'modern' as any. The changing, complex relations between Europeans and their environments from antiquity to the twenty-first century offer instructive comparison with American and current global environmental concerns. Approaching Mediterranean and Western civilizations from an environmental viewpoint also offers fresh perspective on these enduring cultures.

**Requisites:** Sophomore Standing**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY 329 – HISTORY OF AMERICAN CAPITALISM**

4 credits.

Survey of political, social, and economic change in the history of American capitalism from the late colonial period to the near-present.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**HISTORY 332 – ISLAM REFORM AND REVOLUTION IN CENTRAL ASIA**

3-4 credits.

Muslim societies of Central Asia and the caucasus in relationship to Russia and later the U.S.S.R., China, Iran, and Afghanistan among other states. The focus is the process of socio-cultural and political change from 1800 to the present.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2008



**HISTORY 333 – THE RENAISSANCE**

3-4 credits.

Emphasis on the transition from medieval to early modern thought in Italy, 1300-1525.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**HISTORY/RELIG ST 334 – THE REFORMATION**

3-4 credits.

The division of Western Christendom, 1500-1650, and its impact on Europe and the world.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2012**HISTORY 335 – KOREAN HISTORY, 1945 TO PRESENT**

3-4 credits.

A historical examination of North and South Korea politics, society, and culture from 1945 to present.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY 336 – CHINESE ECONOMIC AND BUSINESS HISTORY: FROM SILK TO IPHONES**

3-4 credits.

This is an intermediate-level course on Chinese economic and business history that covers both pre-modern and modern China. The approach is historical; no prior knowledge of economics is required. Topics addressed include: how people thought about property, labor, and value, money and the banking and financial systems, development of domestic and international markets and trade, major industries, the search for resources, agricultural economy, the connection of law and economy, organizations that affected the economy, systemic changes during the Republic and People's Republic, China's participation in international economic institutions, and more.

**Requisites:** Sophomore standing or one class in HISTORY, E A STDS, ECON, or POLI SCI**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**HISTORY/E A STDS 337 – SOCIAL AND INTELLECTUAL HISTORY OF CHINA, 589 AD-1919**

3-4 credits.

The culture of the literati in the Tang; major trends of Neo-Confucianism during the Sung and Ming; the Confucian response to the West in the nineteenth century; the emergence of the modern Chinese intelligentsia and iconoclasm in the early May Fourth period.

**Requisites:** Sophomore standing or Hist 103**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY/E A STDS 341 – HISTORY OF MODERN CHINA, 1800-1949**

3-4 credits.

The disintegration of traditional Chinese society under the impact of Western imperialism, the rise of modern Chinese nationalism, and the emergence of modern revolutionary movements and ideologies.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY/E A STDS 342 – HISTORY OF THE PEOPLES REPUBLIC OF CHINA, 1949 TO THE PRESENT**

3-4 credits.

The social, economic and political transformation of China under Communism; the role of ideology in contemporary Chinese historical development; the nature of that historical development in the comparative perspective of other post-revolutionary histories.

**Requisites:** So st**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**HISTORY 343 – COLONIAL BRITISH NORTH AMERICA**

3-4 credits.

The development of Britain's North American colonies c. 1550-1763 in trans-Atlantic perspective. Topics include the natural environment; British imperial and cultural institutions; relations with other European settlers and Amerindians; Africans and slavery; community life; religious diversity; economic enterprise; and politics. Satisfies either the Social Studies or the Humanities breadth requirement.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2009

**HISTORY 344 – THE AGE OF THE AMERICAN REVOLUTION, 1763-1789**

3-4 credits.

Structure of American society, Britain and the Colonies; the revolutionary movement for independence; the war for independence; social, political, and constitutional change.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**HISTORY 345 – MILITARY HISTORY OF THE UNITED STATES**

3-4 credits.

The founding and growth of the military establishment, the exercise of the military art, and military policies treated in connection with relevant political, social, and economic factors. Students that have previously taken HISTORY 427 or HISTORY 428 are not eligible to enroll for this course.

**Requisites:** Must have sophomore standing or higher.**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2011**HISTORY/GEN&WS 346 – TRANS/GENDER IN HISTORICAL PERSPECTIVE**

3-4 credits.

Throughout recorded history, humans have conceptualized categories of sex and gender in a variety of ways; some have elaborated just two main sex/genders, others have elaborated more than two categories. At the same time, regardless of how a given culture has defined sex and gender and the behaviors and appearances deemed appropriate, humans have always exceeded those definitions. Quite simply, the determination of male and female and any other sex or gender category is neither obvious nor simple: what is sex, what is gender? Do they reside in the body, behavior, psyche, clothing, or social processes such as racialization? To make matters still more complicated, cultural beliefs about sex/gender have changed across time. How have contacts across cultures through migration and colonization affected people's understanding of sex/gender possibilities and norms? This course focuses on sex/gender crossing and variation in historical contexts including Japan, South Africa, Europe, the African diaspora, and North America. We will consider perspectives of people who themselves passed, crossed, transitioned, transed, or otherwise exceeded their culture's definitions of normative sex/gender. Alongside, we will consider the ways that dominant social institutions reinforced norms, recognized, tolerated, punished and/or celebrated gender variation. We will examine popular culture, medical and legal perspectives, memoir, queer and trans theory, and social movement treatises.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**HISTORY/AFROAMER 347 – THE CARIBBEAN AND ITS DIASPORAS**

3 credits.

Major topics in the history of Caribbean societies from the European conquest to the present. Emphasis on colonial rule, slavery, and the diaspora communities created by Caribbean peoples in the United States and Europe.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**HISTORY 348 – FRANCE FROM NAPOLEON TO THE GREAT WAR, 1799-1914**

3-4 credits.

Politics, society and culture in nineteenth century France. Emphasis on France's revolutionary heritage and problems of establishing a democratic regime.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**HISTORY 349 – CONTEMPORARY FRANCE, 1914 TO THE PRESENT**

3-4 credits.

Social, political, and cultural history of twentieth century France, especially the Great War, the Popular Front, the Vichy Regime, DeGaulle and the Fifth Republic, Mitterrand's socialist experiment, France's changing role in the world and the European Community.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016

**HISTORY 350 – THE FIRST WORLD WAR AND THE SHAPING OF TWENTIETH-CENTURY EUROPE**

3-4 credits.

The experience and legacy of the First World War has been linked to nearly every social, cultural, and political transformation that marked the short century that followed: mobilization and the experience of total war transformed the relations between governments and citizens, between men and women, and between social classes. Europeans experienced death on an unprecedented scale and came to terms with new forms of industrialized warfare, from the use of poison gas to modern practices of genocide. Europeans now learned to live with violence, both during as well as after the war, and found new ways to mourn or remember the dead. This course will explore such themes. Using a wide variety of contemporary sources – memoirs, essays, poems, or cinematic representations – we will try to situate the upheaval of 1914-1918 within the larger framework of twentieth-century European history.

**Requisites:** Sophomore standing or consent of instructor**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY 351 – SEVENTEENTH-CENTURY EUROPE**

3-4 credits.

Intellectual, social and political developments during the seventeenth century. Impact of the Scientific Revolution and Rationalism on traditional beliefs. Revolts against Absolutism. The so-called "general crisis".

**Requisites:** So st**Course Designation:** Breadth - Humanities Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY 352 – EIGHTEENTH CENTURY EUROPE**

3-4 credits.

Political, cultural, and social transformations in eighteenth century Europe.

**Requisites:** So st**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2011**HISTORY/GEN&WS 353 – WOMEN AND GENDER IN THE U.S. TO 1870**

3-4 credits.

An advanced and comparative study of the roles of gender, class, and race in American history and historiography. Themes include women as agents of social change and as builders of community.

**Requisites:** So st; completion of intro history women's studies crse preferred**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**HISTORY/GEN&WS 354 – WOMEN AND GENDER IN THE U.S. SINCE 1870**

3-4 credits.

See 520.

**Requisites:** So st; completion of intro history women's studies crse preferred**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2017**HISTORY/CHICLA/LACIS/POLI SCI 355 – LABOR IN THE AMERICAS: US & MEXICO IN COMPARATIVE & HISTORICAL PERSPECTIVE**

3 credits.

Provides a critical examination of the history of labor and working people in the Americas, from the colonial era to the present. It focuses on the experience of the United States and Mexico, offering a comparative perspective on their distinct but also shared (and increasingly linked) histories. The seminar proceeds chronologically, highlighting major episodes in the evolution of labor systems in the two countries, beginning with the colonial labor systems implemented by the Spanish and British empires following the European conquest of the Western Hemisphere. Among other topics, we will examine the pivotal role of slavery and other forms of forced labor, the impact of the industrial revolution, the emergence and expansion of corporate capitalism and the labor unrest it provoked in the post-civil war U.S., the role of labor in the Mexican Revolution and its aftermath, the impact of the Great Depression and labor incorporation on the post-WWII social and political order of both countries, the breakdown of that order and the move to neo-liberalism in the 1970s and 1980s, and the emergence of an increasingly integrated North American production system and its consequences for labor and working people on both sides of the US-Mexico border.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014

**HISTORY 357 – THE SECOND WORLD WAR**

3-4 credits.

Background and history of World War II. Problems of peacemaking and international organizations; rise of Fascism, National Socialism, and Japanese imperialism; breaking the peace; World War II.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY 358 – FRENCH REVOLUTION AND NAPOLEON**

3-4 credits.

Explores the French Revolution and the Age of Napoleon. Why did Revolution break out in one of the most powerful and traditional monarchies of Europe? What were the roots of discontent and the sources of revolutionary ideas? Probes the exciting twists and turns of revolutionary politics and the attempt to spread "liberty equality" into ordinary life, even abolishing slavery in response to massive slave revolt in the French colonies. Asks how the French interacted with a transnational revolutionary movement across Europe, the US, and the Atlantic world. Though focused on a specific revolutionary era, the course also aims to reflect on timeless questions: Why is it so difficult to create democracy? Is violence ever justified to overcome oppression and injustice? Finally, why did this experiment in radical democracy also unleash the Terror and launch Napoleon Bonaparte, the politician and general who built an astonishing European Empire? And how did he pull it off for as long as he did?.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**HISTORY 359 – HISTORY OF EUROPE SINCE 1945**

3-4 credits.

Political, cultural, and social history of Europe from the Second World War to the present.

**Requisites:** So st**Course Designation:** Breadth - Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**HISTORY/ENGL/RELIG ST 360 – THE ANGLO-SAXONS**

3 credits.

Life and literature during the Old English period (c450-c1100). Primary emphasis on the vernacular and Latin writings of the Anglo-Saxons themselves. Extensive historical and archaeological background; attention to the development and character of monasticism, to the production of manuscripts, etc. All reading in translation. Students who have taken English 360 prior to fall 2014 may not enroll in the course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY 361 – THE EMERGENCE OF MOD BRITAIN: ENGLAND 1485-1660**

3-4 credits.

Cultural, economic, political, and social issues and developments, foreign relations; the background of empire.

**Requisites:** So st or HISTORY 123-124**Course Designation:** Breadth - Social Science Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**HISTORY/E A STDS 363 – CHINA AND WORLD WAR II IN ASIA**

3-4 credits.

This course is intended to help students understand World War II from the perspective of Asia. The focus is not only on the American and Japanese roles in the war but also on lesser, often overlooked participants such as China, Korea, and Southeast Asia. The course will focus not only on the diplomatic, political, and military situation of wartime Asia, but also on perceptions and experiences of the war from those most heavily affected by it: those experiencing it on the ground. Understanding this war is critical for helping us understand contemporary Asia. The foundations of the Cold War and the post-Cold War world that we live in today were forged on battlefields in mainland China, Burma, small islands in the Pacific, and in the skies over the archipelago of Japan. In order to provide the background and understand the legacies, this course covers an extended time frame, beginning in the 19th century with the arrival of the West in Asia and continues into the 1950s.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**HISTORY 367 – SOCIETY AND IDEAS IN SHAKESPEARE'S ENGLAND**

3-4 credits.

Explores the relationship between social change and the major systems of thought in Tudor and Stuart England. Popular magic and religion, astrology, witchcraft, the varieties of Anglican protestantism and puritan dissent, the scientific revolution and political thought.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**HISTORY/JEWISH/MEDIEVAL/RELIG ST 368 – THE BIBLE IN THE MIDDLE AGES**

3 credits.

Medieval Bible and its shaping effect on medieval culture.

**Requisites:** Sophomore standing or consent of instructor**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2009**HISTORY/JEWISH 373 – MODERN POLITICAL HISTORY OF THE JEWS: 1655-1919**

4 credits.

Focuses on the politics of emancipation (the acquisition of civil rights). Analyzes Jewish politics from the beginnings of political integration into European society (1695) to the completion of the process in the aftermath of World War I.

**Requisites:** None**Course Designation:** Breadth - Humanities Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2011**HISTORY/JEWISH 374 – MODERN POLITICAL HISTORY OF THE JEWS: ERA OF MASS MOVEMENTS, 1870-1970**

4 credits.

This course will focus on Jewish socialist and nationalist political movements, analyzing their origins in imperial Russia in the late 19th century and their development in the Soviet Union, Poland, Palestine/ Israel, and the U.S. in the 20th century.

**Requisites:** None**Course Designation:** Breadth - Humanities Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2012**HISTORY 377 – HISTORY OF AFRICA, 1500 TO 1870**

3-4 credits.

Studies of Ottoman and European expansion into Africa. The slave trade and unique internal dynamics in African cultures and societies during the period 1500-1870.

**Requisites:** So st**Course Designation:** Breadth - Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2012**HISTORY 378 – HISTORY OF AFRICA SINCE 1870**

3-4 credits.

From the European conquest: resistance movements, African social history, the politics of independence. Emphasis on Africa south of the Sahara.

**Requisites:** So st**Course Designation:** Breadth - Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2011**HISTORY/RELIG ST 379 – ISLAM IN IRAN**

3 credits.

History of Islam in Iran from Arab conquest in the seventh century to the Islamic Revolution in 1978-89.

**Requisites:** So st**Course Designation:** Breadth - Humanities Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2013**HISTORY 391 – THE AGE OF JEFFERSON AND JACKSON, 1789-1848**

3-4 credits.

Establishment of the national government, growth of democracy and the nature of party development, westward expansion, economic change, slavery, and social reform.

**Requisites:** So st**Course Designation:** Breadth - Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2008



**HISTORY/GEN&WS 392 – WOMEN IN HISTORY**

3-4 credits.

An examination of the cultural, social, economic, and political activities of women. Geographical or chronological emphasis varies with instructor.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**HISTORY/AFROAMER 393 – SLAVERY, CIVIL WAR, AND RECONSTRUCTION, 1848-1877**

3-4 credits.

African-American slavery and its impact on mid-19th century social, political, and economic life; the causes, course, and consequences of the Civil War; the rise and fall of postwar Reconstruction and non-racial citizenship; the impact of these histories on contemporary American society.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**HISTORY/HIST SCI/MED HIST 394 – SCIENCE IN AMERICA**

3 credits.

From the colonial period to the present; emphasis on the development of scientific institutions and the influence of science on American life.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY 403 – IMMIGRATION AND ASSIMILATION IN AMERICAN HISTORY**

3-4 credits.

Survey of immigration to the U.S. from colonial times to the present with analyses of the roles of ethnic and racial groups in economics and politics, the reactions of earlier arrivals to their successors, the extent of assimilation and contemporary ethnic and racial consciousness.

**Requisites:** So st**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2017**HISTORY 408 – AMERICAN LABOR HISTORY: 1900-PRESENT**

3-4 credits.

An examination of work, workers, and working class culture in twentieth century America.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**HISTORY 410 – HISTORY OF GERMANY, 1871 TO THE PRESENT**

3-4 credits.

Political and social development of Central Europe from the establishment of the German Empire to the post-World War II period.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY/ED POL 412 – HISTORY OF AMERICAN EDUCATION**

3 credits.

This course examines the history of education in America from the colonial period to the present, including the rise of common (public) schools; the education of populations differing by race, ethnicity, gender, language, religion, and social class; the development of school curricula; the politics of desegregation, bilingual education, and special education; and the evolving federal role in American education.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY/JEWISH 416 – EASTERN EUROPEAN JEWS IN THE UNITED STATES, 1880S-1930S**

3-4 credits.

Analyzes the culture and community of the two million Jews who migrated to the United States between 1880 and 1930.

**Requisites:** None**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2009



**HISTORY 417 – HISTORY OF RUSSIA**

3-4 credits.

Origins and evolution of the Russian people and state; political, economic, and social history; foreign relations as they affect domestic policy; from the ninth century to 1800.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY 418 – HISTORY OF RUSSIA**

3-4 credits.

Russian political, economic, and social history from 1800 to 1917; foreign relations as they affect domestic policy.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**HISTORY 419 – HISTORY OF SOVIET RUSSIA**

3-4 credits.

Major political, economic and social developments in Russia since 1917.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY 420 – RUSSIAN SOCIAL AND INTELLECTUAL HISTORY**

3-4 credits.

Main currents of Russian social thought in the eighteenth and nineteenth centuries. Recommended that students have some knowledge of modern Russian history or of modern European cultural history.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**HISTORY/CHICLA/POLI SCI 422 – LATINO HISTORY AND POLITICS**

3 credits.

Students will examine the historical, social, political, economic, and cultural experiences and conditions of Latinos, one of the largest US racial/ethnic minority groups. Course focus is on people who trace their origins to Mexico, the Caribbean, and countries of Latin America.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**HISTORY 424 – THE SOVIET UNION AND THE WORLD, 1917-1991**

3-4 credits.

Surveys Soviet foreign relations from 1917-1991, examining the causes, course, and outcome of the Cold War. Topics include: Soviet-US relations, World War II, the Socialist Bloc, espionage, the space race, Sino-Soviet relations, and Soviet intervention in the 'Third World.'

**Requisites:** So st**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**HISTORY 425 – HISTORY OF POLAND AND THE BALTIC AREA**

3-4 credits.

Northern part of East Central Europe, the territory included in the former Polish-Lithuanian Commonwealth.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2014**HISTORY/LEGAL ST 426 – THE HISTORY OF PUNISHMENT**

3-4 credits.

This course examines punishment across a vast range of historical traditions, examining how wrongdoing and punishment have been figured in law, literature, art and philosophy. Through the semester we will examine ancient, medieval and modern traditions.

**Requisites:** Junior or Senior standing or consent of instructor**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2016

**HISTORY 427 – THE AMERICAN MILITARY EXPERIENCE TO 1902**

3-4 credits.

A survey of American military experience from the 16th century through the development of a nascent American "empire" at the turn of the 19th and 20th centuries, examining the influence of warfare on all aspects of American society.

**Requisites:** Soph st; not open to stdts who have previously taken HISTORY 345

**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HISTORY 428 – THE AMERICAN MILITARY EXPERIENCE SINCE 1899**

3-4 credits.

A survey of American military experience in the 20th and 21st centuries, examining the influence of warfare on all aspects of American society.

**Requisites:** Soph st; not open to students who have previously taken HISTORY 345

**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HISTORY/ENVIR ST/LEGAL ST 430 – LAW AND ENVIRONMENT: HISTORICAL AND CONTEMPORARY PERSPECTIVES**

3 credits.

Explores environmental studies through a focus on law and legal history. Although its main concentration is on U.S. environmental law, the course will begin and end with broader historical and global perspectives.

Topics include a survey the English, European, and early American legal approaches to land use, natural resources, and pollution through World War II as well as an examination of the development and practice of contemporary U.S. environmental law and consideration of the recent emergence of international environmental law.

**Requisites:** Sophomore standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HISTORY/SCAND ST 431 – HISTORY OF SCANDINAVIA TO 1815**

3 credits.

Political, social, economic and cultural developments of Scandinavia through the "Viking Age" to the break-up of Sweden-Finland and Denmark-Norway; emphasis on the interplay between social and political forces and institutions and the area's relationship with the rest of Europe.

**Requisites:** So st

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HISTORY/SCAND ST 432 – HISTORY OF SCANDINAVIA SINCE 1815**

3 credits.

Political, social, economic, and cultural development: political realignments and rise of nationalism, industrialization and rise of liberalism and socialism, democratization, independence struggles and social conflict, evolution of welfare states, World War II and its aftermath.

**Requisites:** So st

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HISTORY 434 – AMERICAN FOREIGN RELATIONS, 1901 TO THE PRESENT**

3-4 credits.

America's relations with the world, emphasizing the economic, political and ideological elements determining policy.

**Requisites:** So st

**Course Designation:** Breadth - Humanities Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HISTORY/CHICLA 435 – COLONY, NATION, AND MINORITY: THE PUERTO RICANS' WORLD**

3 credits.

A historical introduction to the Puerto Rican experience, from island to mainland. Varieties of colonial rule, social institutions, cultural processes, and ethnic and national identity. Migration to the U.S. and social dynamics of stateside communities.

**Requisites:** Junior standing or higher

**Course Designation:** Breadth - Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**HISTORY/RELIG ST 437 – WESTERN CHRISTIANITY FROM AUGUSTINE TO DARWIN**

4 credits.

A survey of Christianity from the fourth century through the nineteenth. Explores the culture of Christianity—architecture, literature, images, and music—in order to understand how Christianity has become a world religion.

**Requisites:** Open to Fr with cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**HISTORY/LCA/RELIG ST 438 – BUDDHISM AND SOCIETY IN SOUTHEAST ASIAN HISTORY**

3-4 credits.

Theravada Buddhism in Southeast Asia; ideas and basic tenets; history and its impact on social and political institutions; the monastic order and relations with the states; roles in the early history up to the present; focus on Thailand and Burma.

**Requisites:** So st**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2014**HISTORY/RELIG ST 439 – ISLAMIC HISTORY FROM THE ORIGIN OF ISLAM TO THE OTTOMAN EMPIRE**

3-4 credits.

Political action and organization in medieval Islam (ca 600-1500), with focus on selected states.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY 441 – REVOLUTION AND CONFLICT IN MODERN LATIN AMERICA**

3-4 credits.

Comparative analysis of the relationship between socio-economic structure and political conflict in nineteenth and twentieth century Latin America. Cases, chosen to illustrate such outcomes as social revolution, authoritarian repression and electoral stalemate, vary each year.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**HISTORY 444 – HISTORY OF EAST AFRICA**

3-4 credits.

Formation of ethnic groups, state building, the development of pre-colonial trade institutions, and African social and political history in the colonial period.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**HISTORY 445 – HISTORY OF EQUATORIAL AFRICA**

3-4 credits.

Area south of Lake Chad and north of Southwest Africa and Zambia from the advent of the Iron Age to the present.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**HISTORY/LCA 450 – MAKING OF MODERN SOUTH ASIA**

3-4 credits.

Everything you ever hear about South Asia is true. But the exact opposite is also true. Tradition and modernity, development and stagnation, the past and the future all exist simultaneously, at times in harmony and at other times in conflict with one another. Through an exploration of the political, social and economic history of this region from the 18th century to the present day, students will learn about the making of modern South Asia and attempt to understand this paradox.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2012**HISTORY/ENVIR ST/F&W ECOL 452 – WORLD FOREST HISTORY**

3 credits.

Examines world forest history, with attention to links between societal change and forest change. Examines how different peoples have used or abused the forest, how societies have struggled to establish policies governing forests, and how perceptions of forests have evolved.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2012**HISTORY/E A STDS 454 – SAMURAI: HISTORY AND IMAGE**

3-4 credits.

Japanese warriors, their ideals, and their images from the tenth century to the present.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016

**HISTORY/E A STDS 456 – PEARL HARBOR & HIROSHIMA: JAPAN, THE US & THE CRISIS IN ASIA**

3-4 credits.

Events leading to the Pearl Harbor attack, the conduct of World War II in the Pacific, the nature of the wartime Japanese state and effects of the war on Japanese society, the dropping of the atomic bombs, and Japan's decision to surrender. The war as an epoch in Japanese history.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**HISTORY/LCA 457 – HISTORY OF SOUTHEAST ASIA TO 1800**

3-4 credits.

Formation and development of classical Indian and Chinese influenced societies in the area comprising present-day Burma, Thailand, Cambodia, Laos, Vietnam, Malaysia, Indonesia, and the Philippines, and their meeting with Islam and the early Europeans.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**HISTORY/LCA 458 – HISTORY OF SOUTHEAST ASIA SINCE 1800**

3-4 credits.

Effects of the modern Western revolution on the established societies of Southeast Asia through colonial rule and economic and cultural change.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY/LEGAL ST 459 – RULE OF LAW: PHILOSOPHICAL AND HISTORICAL MODELS**

3-4 credits.

From the perspectives of history and political theory, this course examines the multiple meanings of the idea of the rule of law, and its uses in American history. We then explore prominent critiques of the rule of law ideal.

**Requisites:** A prev law-related crse**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**HISTORY/ENVIR ST/GEOG 460 – AMERICAN ENVIRONMENTAL HISTORY**

4 credits.

Survey of interactions among people and natural environments from before European colonization to present. Equal attention to problems of ecological change, human ideas, and uses of nature and history of conservation and environmental public policy.

**Requisites:** So st**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY/CHICLA 461 – THE AMERICAN WEST TO 1850**

3-4 credits.

North American frontiers through the period of the Mexican War. Major Indian cultures of North America; the frontiers and differing imperial systems of Spain, France, and England; and the westward movement of the United States through 1850.

**Requisites:** So st**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY/CHICLA 462 – THE AMERICAN WEST SINCE 1850**

3-4 credits.

The West as frontier and region since 1850. Indian-white and other interethnic relations; federal policies; the development of a resource-intensive economy, its environmental effects, and political conflicts accompanying it; and the ideology of the frontier in American culture.

**Requisites:** So st**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY 463 – TOPICS IN SOUTH ASIAN HISTORY**

3 credits.

Topics vary.

**Requisites:** So st**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017

**HISTORY/ART HIST/DS 464 – DIMENSIONS OF MATERIAL CULTURE**  
3 credits.

Approaches to the interdisciplinary study of the material world in order to analyze broader social and cultural issues. Guest speakers explore private and public objects and spaces from historic, ethnographic, and aesthetic perspectives.

**Requisites:** One course 300-level or higher in ART HIST or DS

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**HISTORY/ECON 465 – THE AMERICAN ECONOMY TO 1865**  
3-4 credits.

Survey of the forces underlying American economic development and the distribution of income; rise of regional economies; origins of manufacturing; effects of slavery; influence of government and politics on growth.

**Requisites:** So st

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HISTORY/ECON 466 – THE AMERICAN ECONOMY SINCE 1865**  
3-4 credits.

Emergence of the large corporation; growth and instability since the mid-nineteenth century; increasing government participation in the economy; the impact of war, depression, discrimination, and international responsibilities.

**Requisites:** So st

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HISTORY 467 – ECONOMIC AND SOCIAL HISTORY OF EUROPE 1500-1750**  
3-4 credits.

Population trends, technology, and the level of economic activity; overseas expansion and its impact on Europe; the northward shift of economic power; wealth and poverty in early modern society.

**Requisites:** So st

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**HISTORY/CHICLA 468 – POPULAR CULTURE IN THE MULTI-RACIAL UNITED STATES**

3-4 credits.

Origins and development of widely distributed popular culture in the nineteenth and twentieth centuries with emphasis on race and racialization. Exploration of production/performance and consumption of minstrel shows, wild west shows, film, radio, television, music in topical units.

**Requisites:** So St

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**HISTORY/ENVIR ST/GEOG 469 – THE MAKING OF THE AMERICAN LANDSCAPE**

4 credits.

Surveys the historical geography and environmental history of the United States by tracing the evolution of the American landscape from precolonial times to the present, with special emphasis on teaching students skills they can use to interpret landscape history themselves.

**Requisites:** Sophomore standing or one course in HISTORY, GEOG or ENVIR ST

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**HISTORY/RELIG ST 470 – RELIGIOUS THOUGHT IN MODERN EUROPE**  
3-4 credits.

History of religious thought in modern Europe (19th and 20th centuries) as reflected in theology, philosophy, literature, and political and social theory. Major emphasis on Protestant and Roman Catholic traditions but with additional discussion of Judaism and Orthodoxy.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**HISTORY/GEN&WS/LCA 472 – WOMEN IN TURKISH SOCIETY**  
3 credits.

Interdisciplinary analysis of women's issues in Turkish society from the Ottoman era imperial harem to Islamist feminist movements in the secular Republic of Turkey today. Emphasis on the critical use of a comprehensive set of disciplinary lenses.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010



**HISTORY 474 – EUROPEAN SOCIAL HISTORY, 1830-1914**

3-4 credits.

Societal change in an age of revolution; bourgeois culture and its discontents; class, gender, religion, region, and nation; formation of political ideologies, including liberalism, conservatism, socialism, anarchism, imperialism, and racism.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**HISTORY 475 – EUROPEAN SOCIAL HISTORY, 1914-PRESENT**

3-4 credits.

State, class, gender, and culture from the world wars to the present. Democracy, communism, fascism. Emphasis on everyday life, consumption, leisure, technology, and Americanization.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY/LEGAL ST 476 – MEDIEVAL LAW AND SOCIETY**

3 credits.

The course is intended to introduce students to the central historical developments of law and legal institutions in the European middle ages (400-1500).

**Requisites:** None**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**HISTORY/ED POL 478 – COMPARATIVE HISTORY OF CHILDHOOD AND ADOLESCENCE**

3 credits.

Growth of modern childhood and adolescent sub-cultures, class differences, literary and pictorial representations, legal and demographic developments, and the growth of educational theories and institutions.

**Requisites:** Junior standing**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**HISTORY/AMER IND 490 – AMERICAN INDIAN HISTORY**

3-4 credits.

**Requisites:** Jr st or cons inst**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2017**HISTORY 500 – READING SEMINAR IN HISTORY**

3 credits.

Advanced exploration of selected topics, featuring intensive reading, writing, and small-group discussion. Topics vary.

**Requisites:** Jr st cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HISTORY/LEGAL ST 502 – LAW AND COLONIALISM**

3 credits.

Historical introduction to the role of law in the context of empire, with special emphasis on 19th-20th C British imperialism; explores themes of class, race and gender through fields of law including criminal, property, family, contract and labor law.

**Requisites:** Previous law-related course**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**HISTORY 503 – IRISH AND SCOTTISH MIGRATIONS**

3 credits.

An examination of migrations into, out of, and between Ireland and Scotland from Roman times to the present. Particular attention paid to migrant and ethnic experiences in the United States, Canada, England, Australia, New Zealand, as well as other destinations.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2014



**HISTORY/HIST SCI/MED HIST 504 – SOCIETY AND HEALTH CARE IN AMERICAN HISTORY**

3 credits.

Lecture-seminar. Health care in America since the colonial period; emphasis on social developments.

**Requisites:** Jr st cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**HISTORY 505 – HISTORY AT WORK: PROFESSIONAL SKILLS OF THE MAJOR**

1-2 credits.

This seminar is intended to help history majors understand how their History degree applies to the world of work. Students will explore how their history skills relate to the needs of professional employers. Students will be guided in the process of finding and obtaining professional internships. Students will polish written and oral communication skills in forms appropriate for professional situations. Students will also learn from the experiences of guest speakers from a variety of fields.

**Requisites:** Students must have declared the history major**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY 506 – HISTORY AT WORK: HISTORY INTERNSHIP SEMINAR**

3 credits.

This seminar is intended to help History majors understand how their History degree applies to the world of work. Intended to supplement students' internship experiences, class hours will be dedicated to discussing issues that arise in students' internships, polishing written and oral communication skills in forms appropriate for professional situations, and exploring how students' historical skills apply to the workplace. Students will also learn from the experiences of guest speakers from a variety of fields. Students must be participating in an internship at the beginning of the term for which they enroll. Students who are not able to get internships for that semester should enroll in Hist 505.

**Requisites:** Students must have declared this history major.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY/HIST SCI/MED HIST 507 – HEALTH, DISEASE AND HEALING I**

3-4 credits.

Medicine in Europe from antiquity to the 18th century, investigating changes in medical ideas, institutions, practices, and organization.

**Requisites:** Jr st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**HISTORY/HIST SCI/MED HIST 508 – HEALTH, DISEASE AND HEALING II**

3-4 credits.

Medicine in Europe from the 18th century to mid-20th century, investigating changes in disease and demography, state interest in health care, the medical professions, and both scientific and alternative medical ideas.

**Requisites:** Jr st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2014**HISTORY/LEGAL ST 510 – LEGAL PLURALISM**

3 credits.

Historical and anthropological perspectives on non-state "law," or systems of rules generated by normative orders that lay beyond the state; case studies include the mafia, Tokyo tuna traders' court, orthodox Jewish diamond merchants, California gold miners' courts, Inuit song dueling.

**Requisites:** Previous law-related course**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**HISTORY/RELIG ST 512 – THE ENLIGHTENMENT AND ITS CRITICS**

3 credits.

European intellectual history in the 17th and 18th centuries, from the Wars of Religion to the French Revolution. The course examines the rise of Enlightenment thought in relation to political and religious conflict, revolutions in science and philosophy, and the emergence of the public sphere. Special attention is devoted to the Enlightenment's relationship to religion and to critiques made of Enlightenment thinking, including by early Romanticism.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**HISTORY 514 – EUROPEAN CULTURAL HISTORY SINCE 1870**

3-4 credits.

The fin de siècle and the main cultural trends of the twentieth century.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**HISTORY/CURRIC/JEWISH 515 – HOLOCAUST: HISTORY, MEMORY AND EDUCATION**

3 credits.

This course explores the ways in which Holocaust history, memory and education are mutually entangled, politically charged and morally complex. Using primarily American sites of memory, students will critically analyze a variety of representations of the Shoah—in literature, films, memoirs, monuments, museums and classrooms.

**Requisites:** Jr st or cons inst

**Course Designation:** Gen Ed - Communication Part B

Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

**HISTORY/CLASSICS/RELIG ST 517 – RELIGIONS OF THE ANCIENT MEDITERRANEAN**

3 credits.

Ancient religions in their political, social and cultural contexts; topics include ritual, literary and artistic representations, religious persecutions, and/or modern approaches to the study of ancient religions. Chronological and geographical focus will vary between Greece, Rome, Judaea and Egypt.

**Requisites:** Sophomore Standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HISTORY/JEWISH 518 – ANTI-SEMITISM IN EUROPEAN CULTURE, 1700-1945**

3 credits.

A critical review of major theories of anti-Semitism and a history of modern anti-Semitism.

**Requisites:** Jr st

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HISTORY/GEN&WS 519 – SEXUALITY, MODERNITY AND SOCIAL CHANGE**

3 credits.

A history of sexuality approach to a period of major social, economic, and political change in US history, 1880-1930; medical, legal, and popular discourses shaping urbanization, reform, nationalism and colonialism.

**Requisites:** Jr st cons inst

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HISTORY 525 – THE WORLD AND THE WEST FROM 1492**

3-4 credits.

How and why of major recurring types of relations between Westerners and other peoples of the world during five centuries of intensifying contact. Patterns considered: trading post empires (Eastern spices, Northern furs), slave plantation colonies, true empires (minute Western ruling elites), creole empires (Latin America, South Africa), settlement colonies, and informal empire (neocolonialism).

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**HISTORY/JEWISH/RELIG ST 529 – INTELLECTUAL AND RELIGIOUS HISTORY OF EUROPEAN JEWRY, 1648-1939**

4 credits.

Main movements and trends of thought, religion, and culture as European Jewry gained emancipation and adjusted to mass society.

**Requisites:** Hist 119 or 120 or 512 or 513; or Hist/JEWISH/HISTORY 220; or Hebr St/Jewish 471 or 472

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**HISTORY 533 – MULTI-RACIAL SOCIETIES IN LATIN AMERICA**

3-4 credits.

Genesis, evolution, and contradictions of racially heterogeneous societies, from European conquest to the present. Social history of Indians, Blacks, and Asians; relationships between racial, sexual, and class oppressions. Regional emphasis may vary.

**Requisites:** Junior standing

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**HISTORY 540 – BALKANS AND MIDDLE EAST, 1700-1918: THE RISE OF NATIONAL STATES**

3-4 credits.

Survey of political, economic and cultural organizations and their transformation under the market economy and relations with England, France and Russia.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2009**HISTORY/HIST SCI/MED HIST 543 – DOCTORS AND DELUSIONS: MADNESS AND MEDICINE IN THE MODERN ERA**

3 credits.

Medical approaches to mental illness from 1750 to the present. Emphasis on how tension between biomedical and socio-environmental theories about psychopathology have marked modern psychiatry. Focus on Europe and the United States with global and comparative dimensions.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2011**HISTORY/LCA/RELIG ST 547 – RELIGION, COLONIALISM & MODERNITY IN SOUTHEAST ASIA**

3 credits.

Examines changes in Southeast Asian religions (Buddhism, Confucianism, Islam) and experiences of modernity during the colonial period. Focus on religious and literary expressions from Thailand, Cambodia, Vietnam and Indonesia.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**HISTORY/CLASSICS/FRENCH/ITALIAN/MEDIEVAL 550 – ADVANCED INTERDISCIPLINARY STUDIES IN MEDIEVAL CIVILIZATION**

3 credits.

An integrated treatment of a specific theme, to be announced by a group of specialists in different fields.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012**HISTORY 555 – HISTORY OF BRAZIL**

3-4 credits.

The evolution of Brazil's society, economy, and political institutions since the arrival of the Portuguese court in 1808. Attention to the forces that have supported or opposed modernization.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2010**HISTORY/JOURN 560 – HISTORY OF MASS COMMUNICATION**

4 credits.

Evolution of the mass media in the United States in the context of political, social, and economic change.

**Requisites:** Junior standing**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY/CLASSICS/HIST SCI/MED HIST/S&A PHM 561 – GREEK AND ROMAN MEDICINE AND PHARMACY**

3 credits.

Greek and Roman medicine and drug lore from the Pre-Socratics to Oribasius (c. 600 B.C. - A.D. 350), including the backgrounds of ancient Egyptian and Mesopotamian medicine.

**Requisites:** Junior standing**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**HISTORY/HIST SCI/MED HIST/MEDIEVAL/S&A PHM 562 – BYZANTINE MEDICINE AND PHARMACY**

3 credits.

Byzantine and Islamic medicine and drug lore from Oribasius to the beginnings of the Italian Renaissance (c. 350 - c. 1400 A.D.).

**Requisites:** Junior standing**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015

**HISTORY/HIST SCI/MED HIST 564 – DISEASE, MEDICINE AND PUBLIC HEALTH IN THE HISTORY OF LATIN AMERICA AND THE CARIBBEAN**  
3 credits.

This course examines the history of illness and medical practice in Latin America and the Caribbean from the colonial era until the present. Using an interdisciplinary set of sources, students will explore the different meanings of disease, body normativity, medical practice, and ideas about public health across different historical circumstances in the region. Include Graduate and Professional level

**Requisites:** Junior standing or above.

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**HISTORY/L I S 569 – HISTORY OF AMERICAN LIBRARIANSHIP**  
3 credits.

Development of American librarianship from Colonial times to the present, with special reference to the relationship of library institutions to their contemporary social, economic, cultural and political environments.

**Requisites:** Enrollment limited to graduate students in the L I S program or Juniors or Seniors

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**HISTORY/SCAND ST 577 – CONTEMPORARY SCANDINAVIA: POLITICS AND HISTORY**

3-4 credits.

Social, economic, and ideological changes, institutions, and movements and their relationships with the political processes and structures in the Nordic states.

**Requisites:** Junior standing

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**HISTORY 600 – ADVANCED SEMINAR IN HISTORY**  
3 credits.

Development and application of advanced research skills to a specific historical topic. Intensive writing and small group discussion results in a project demonstrating original or creative analysis of primary and secondary sources.

**Requisites:** Junior or Senior standing consent of instructor

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Honors - Accelerated Honors (!)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**HISTORY 601 – HISTORICAL PUBLISHING PRACTICUM**  
3 credits.

Hands-on instruction and experience in historical publishing. Discussion of the nature of historical research and writing.

**Requisites:** Approval of the instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HISTORY 607 – THE AMERICAN IMPACT ABROAD: THE HISTORICAL DIMENSION**  
3 credits.

Repeatable (as topic changes) with cons inst. Analysis of diplomatic, economic, cultural, and social interaction of Americans with foreign peoples and nations.

**Requisites:** Jr st

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**HISTORY/ED POL 622 – HISTORY OF RADICAL AND EXPERIMENTAL EDUCATION IN THE US AND UK**  
3 credits.

Examines the comparative history of radical and experimental education in the United States and United Kingdom since 1800. It focuses on the social, cultural, and intellectual history of diverse educational experiments, including experiments related to socialism, abolitionism, anarchism, and religious fundamentalism.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**HISTORY/AFROAMER 628 – HISTORY OF THE CIVIL RIGHTS MOVEMENT IN THE UNITED STATES**  
3 credits.

Civil rights history from 1930-1970. Legal, historical and economic origins of the civil rights movement. Study of the movement's impact on United States culture, politics, and international relations.

**Requisites:** Junior standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**HISTORY/ART HIST/JOURN/L I S 650 – HISTORY OF BOOKS AND PRINT CULTURE IN EUROPE AND NORTH AMERICA**

3 credits.

History of books and print culture in the West from ancient times to the present. Focus on the influence of reading and writing on social, cultural, and intellectual life. Methodologies, theories, and sources for study of book and print culture history.

**Requisites:** Enrollment limited to graduate students in the L I S program or Juniors or Seniors

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HISTORY/ED POL 665 – HISTORY OF THE FEDERAL ROLE IN AMERICAN EDUCATION**

3 credits.

This course examines the history of federal aid to education, emphasizing the post-World War II period. It addresses such topics as desegregation; bilingual, special, and compensatory education; policy implementation and evaluation; and the connections between executive, legislative, and judicial actions.

**Requisites:** Jr st

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**HISTORY/SOC 670 – CAPITALISM, SOCIALISM, AND DEMOCRACY IN AMERICA SINCE 1890**

3-4 credits.

Political institutional arrangements which have emerged since 1890 and how they have influenced social and economic policies implemented since the Second World War. Why the working class has been politically weak in America; policy consequences of this weakness.

**Requisites:** Junior standing and SOC/C&E SOC/SOC 140, SOC 181, SOC/C&E SOC/SOC 210, SOC/C&E SOC/SOC 211, SOC 125, HISTORY 102, or HISTORY 109

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HISTORY 680 – HONORS THESIS COLLOQUIUM**

2 credits.

Colloquium for honors thesis writers. Stdts must register concurrently for HISTORY 681 or 682

**Requisites:** Honors candidate cons inst.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**HISTORY 681 – SENIOR HONORS THESIS**

1-3 credits.

Stdts must register concurrently in HISTORY 680

**Requisites:** Honors candidates cons inst.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HISTORY 682 – SENIOR HONORS THESIS**

1-3 credits.

Continuation of HISTORY 681. Stdts must register concurrently in HISTORY 680

**Requisites:** Honors candidates cons inst.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HISTORY 690 – THESIS COLLOQUIUM**

2 credits.

Colloquium for thesis writers. Stdts must register concurrently for HISTORY 691 or 692

**Requisites:** Major in history cons inst.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**HISTORY 691 – SENIOR THESIS**

1-3 credits.

Research and writing on an original topic. Stdts pursuing distinction must register concurrently in Hist 690

**Requisites:** Major in history cons inst.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**HISTORY 692 – SENIOR THESIS**

1-3 credits.

Continuation of HISTORY 691. Stdts pursuing distinction must register concurrently in Hist 690

**Requisites:** Major in history cons inst.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**HISTORY 698 – DIRECTED STUDY**

1-4 credits.

Graded on a Cr/N basis; requires cons inst previous or conc exposure to the subject

**Requisites:** Jr or Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**HISTORY 699 – DIRECTED STUDY**

1-4 credits.

Graded on a lettered basis; requires cons inst prev or con exposure to the subject

**Requisites:** Jr or Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HISTORY 700 – PROSEMINAR: TRADITIONAL & EARLY MODERN CHINESE INTELLECTUAL HISTORY**

3 credits.

The major problems of historical interpretations in Chinese intellectual history from the classical period to 1840 on the basis of English translations of primary sources and English-language secondary sources. Topics vary. Lin.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**HISTORY 701 – HISTORY IN A GLOBAL PERSPECTIVE**

1 credit.

Introduction to the ways of thinking characteristic of historical study and to the questions and methods that motivate the research fields in which department faculty work. Required of all graduate students in their first year.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY 703 – HISTORY AND THEORY**

3 credits.

Explorations of the role of theory in historical research and writing. Content varies.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**HISTORY 704 – TOPICS IN CONTEMPORARY HISTORY**

3 credits.

This seminar studies two or more nations or defined regions through a comparison of a single theme or set of themes in their history.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**HISTORY 705 – TOPICS IN GLOBAL HISTORY**

3 credits.

This seminar examines the significance of a particular historical phenomenon from the perspective of its importance world-wide.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HISTORY 706 – TOPICS IN TRANSNATIONAL HISTORY**

3 credits.

This seminar examines the significance of a particular event, phenomenon or question across national borders and in terms of the history of nation-state formation.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**HISTORY 707 – PROSEMINAR IN EARLY MODERN EUROPEAN HISTORY, 1500-1789**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**HISTORY 710 – PROFESSIONAL DEVELOPMENT SEMINAR**

3 credits.

Topics in professional development for historians with an emphasis on building skills that are valuable both inside and outside the academy, such as managing the writing process, teaching college history, or communicating historical research to a broad, nonspecialist audience. Content varies.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**HISTORY/AFROAMER/ED POL 712 – EDUCATION AND THE CIVIL RIGHTS MOVEMENT**

3 credits.

Explores the historical relationship between education and the African American freedom struggle from the early twentieth century to the present. Topics include school segregation, desegregation, and resegregation; high school and college student activism; Black Power; civil rights protest strategies and tactics, and the role of the federal government.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**HISTORY/ED POL 713 – HISTORY OF HIGHER EDUCATION IN EUROPE AND AMERICA**

3 credits.

Development of colleges, universities, and higher learning in Europe and America.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY/MEDIEVAL 720 – SELECTED TOPICS IN MEDIEVAL HISTORY**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2009**HISTORY/POLI SCI/PUB AFFR 724 – THE POLITICS OF PERSUASION: SOFT POWER IN EUROPE AND THE U.S.**

1-3 credits.

How powerful is non-military power? What are its vectors and its limits? International relations theorists have defined soft power as "the ability to get what you want through attraction rather than coercion." This graduate seminar will put this notion to the test. We will investigate how elites, interest groups, religious bodies, and nation-states seek to exercise hegemony in the international order through non-violent means. How was "soft power" implemented on the ground in the 20th century- and how did its use transform international relations? To probe these questions, we will focus on a series of case studies in European and U.S. international history. Topics covered include the expansion of capitalism and consumer culture; the globalization of international legal instruments and human rights claims; and de-secularization, religious radicalism, and counter-insurgency. In the process of analyzing our case studies, we will refine our analytical vocabulary. Drawing on recent work in international relations, political theory, and international history, we will probe the meaning and utility of concepts like normative power, hegemony, cultural capital, and public diplomacy.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**HISTORY 725 – SEMINAR IN EAST ASIAN HISTORY**

1-3 credits.

Major problems of historical interpretation in the early modern and recent histories of China, Japan, and Korea. Topics and periods of emphasis vary each year.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**HISTORY 730 – PROSEMINAR IN LATIN AMERICAN HISTORY**

1-3 credits.

Historical literature of significant topics in Latin American history. The colonial period, Brazilian history, and Spanish-America in the national period. Offered in alternate semesters.

**Requisites:** Grad st, reading knowledge of Span or Portuguese cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**HISTORY/L I S 734 – INTRODUCTION TO ARCHIVES AND RECORDS MANAGEMENT**

3 credits.

An introduction to the archives profession and basic theory and practice of archives and records administration, including the uses of primary sources in research, appraisal, access, and preservation.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY 751 – PROSEMINAR IN THE HISTORY OF AFRICA**

1-3 credits.

Historical literature of Africa through comparative topics which vary each term.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2008**HISTORY 752 – SEMINAR IN TRANSNATIONAL GENDER HISTORY**

3 credits.

Themes in Gender and Women's History within a transnational context.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No

**HISTORY 753 – SEMINAR-COMPARATIVE WORLD HISTORY**

1-3 credits.

Topics significant for the histories of Latin America, Africa, Islamic core, South Asia and Southeast Asia. A single topic chosen each semester for a series of comparative essays by seminar members.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HISTORY 755 – PROSEMINAR IN SOUTHEAST ASIAN HISTORY**

1-3 credits.

Introductory seminar in modern Southeast Asian history; work mostly in English-language sources.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HISTORY/ANTHRO/ART HIST/DS/LAND ARC 764 – DIMENSIONS OF MATERIAL CULTURE**

4 credits.

This course introduces students to the interdisciplinary field of material culture studies. It is intended for students interested in any professional endeavor related to material culture, including careers in museums, galleries, historical societies, historic preservation organizations, and academic institutions. During the semester, students have varied opportunities to engage with and contemplate the material world to which people give meaning and which, in turn, influences their lives. Sessions combine in some way the following: presentations from faculty members and professionals who lecture on a phase of material culture related to his/her own scholarship or other professional work; discussion of foundational readings in the field; visits to collections and sites on campus and around Madison; discussion of readings assigned by visiting presenters or the professors; and exams and short papers that engage material culture topics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY/ANTHRO 774 – METHODS FOR HISTORICAL RESEARCH IN NON-LITERATE SOCIETIES**

3 credits.

Techniques and critical analysis applied to written, oral, archaeological, linguistic and cultural data. Stresses problems of synthesis. Exercises.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2012**HISTORY 795 – QUANTITATIVE METHODS FOR HISTORICAL RESEARCH**

3 credits.

Types and use of quantitative techniques in historical research; introduction to basic methods, their application; discussion of kinds and sources of measurable historical data.

**Requisites:** Sr Grad st cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**HISTORY 800 – RESEARCH SEMINAR IN HISTORY**

3 credits.

Research seminar designed for students in all fields of history. Seminar is structured to enable students to complete the research paper requirement for the MA. It will introduce students to the life of a professional historian, to different styles and methods of history, and give them the opportunity to present their findings in a conference-type setting.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HISTORY/CLASSICS 801 – SEMINAR-ANCIENT HISTORY**

1-3 credits.

Special problems in Greek and Roman history studied in alternate years.

**Requisites:** Grad st reading knowledge of appropriate foreign language**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**HISTORY/FRENCH/GERMAN/POLI SCI/SOC 804 – INTERDISCIPLINARY WESTERN EUROPEAN AREA STUDIES SEMINAR**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**HISTORY 805 – SEMINAR-MEDIEVAL HISTORY**

1-3 credits.

Topics in intellectual history.

**Requisites:** Grad st, reading knowl of Latin, French and German and cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016

**HISTORY/JOURN 808 – MASS COMMUNICATION HISTORY**

3 credits.

Intensive reading and discussion designed to introduce students to literature of mass communication.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**HISTORY 813 – SEMINAR-BYZANTINE HISTORY & CIVILIZATION**

1-3 credits.

Problems in historical, historiographical and cultural research in periods between the age of Diocletian and 1453.

**Requisites:** Grad st reading knowledge of Greek or Latin; competence in French and German is assumed

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2011

**HISTORY 822 – STUDIES IN ECONOMIC HISTORY**

3 credits.

Topics vary each year.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

**HISTORY 829 – RESEARCH SEMINAR IN LATIN AMERICAN HISTORY**

1-3 credits.

Research on topics in Latin American history. Special attention to methods of source analysis.

**Requisites:** Grad st, reading knowledge of Spanish or Portuguese, cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**HISTORY 837 – SEMINAR-HISTORY OF MODERN BRITAIN AND IRELAND**

1-3 credits.

Emphasis on social and political movements as well as on economic development.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

**HISTORY 845 – SEMINAR-CENTRAL EUROPEAN HISTORY**

1-3 credits.

Modern German history and the history of Central Europe.

**Requisites:** Grad st reading knowledge of German

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**HISTORY 849 – SEMINAR-TOPICS IN HISTORY OF IMPERIAL RUSSIA, 1649-1917**

1-3 credits.

Historiography and problems in the domestic, political, social, economic and cultural history of the Russian Empire to 1917 and of Southeast Europe to the present. Reading knowledge of Russian recommended but not required

**Requisites:** Grad st.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**HISTORY 850 – SMR-HIST OF THE SOVIET UNION & MODERN HIST OF E CENTRAL EUROPE**

1-3 credits.

Development of the Soviet Union since 1917 and the political and diplomatic history of the nations lying between Russia and Germany.

**Requisites:** Grad st reading knowledge of Russian or German or the east European language in which the stdt wishes to work cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**HISTORY/LCA 851 – SEMINAR ON OTTOMAN AND MIDDLE EAST HISTORY**

1-3 credits.

Concepts applicable to the study of social, economic and institutional movements and developments in the area within a broad historical framework.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2008

**HISTORY 854 – SEMINAR IN MODERN CHINESE HISTORY**

1-3 credits.

Chinese history in the nineteenth and twentieth centuries, with emphasis on intellectual history and the history of Chinese Communism.

**Requisites:** Intro prose in mod E Asian hist or equiv, appropriate Chinese lang background, cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**HISTORY 855 – SEMINAR IN JAPANESE HISTORY**

1-3 credits.

Research seminar in Japanese history. Focus varies each year. Required for M.A. and Ph.D. candidates in Japanese history, but open to students with no Japanese language background.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HISTORY/LCA 857 – SEMINAR-HISTORY OF INDIA (SOUTH ASIA)**

1-3 credits.

Emphasis upon handling of research problems. Focus upon methods, resources, intellectual approaches, and changing interpretations. Appropriate language(s).

**Requisites:** Grad st and cons inst.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**HISTORY/RELIG ST 858 – SEMINAR IN PROBLEMS OF ISLAMIC HISTORY**

2-3 credits.

Social and economic history of North Africa and the Middle East in Islamic and modern times.

**Requisites:** Grad st knowledge of appropriate foreign language**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**HISTORY 861 – SEMINAR-THE HISTORY OF AFRICA**

1-3 credits.

Research studies in aspects of African history with emphasis on field research techniques and interpretation of non-archival data.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HISTORY 867 – SEMINAR-EUROPEAN SOCIAL & INTELLECTUAL HISTORY**

1-3 credits.

Subject matter varies every semester and alternates between the early modern and modern period.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HISTORY 868 – SEMINAR IN MODERN FRENCH HISTORY**

1-3 credits.

Social, political, and cultural history of France, 1800 to the present.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**HISTORY 891 – PROSEMINAR IN MODERN EUROPEAN HISTORY**

1-3 credits.

History of Europe since 1500.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HISTORY 900 – INTRODUCTION TO HISTORY FOR U.S. HISTORIANS**

3 credits.

A survey of U.S. history by period and field, designed to introduce new graduate students to U.S. history faculty members and each other. Extensive discussion of how to plan a successful career as a historian. S. history

**Requisites:** Open only to entering Grad stdts in U.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY 901 – STUDIES IN AMERICAN HISTORY**

1-3 credits.

Reading seminar in American history. Topics and periods of emphasis vary.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HISTORY 902 – RESEARCH SEMINAR IN AMERICAN HISTORY**

1-3 credits.

Research topics and period of emphasis announced in advance by the professor in charge.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2010

**HISTORY/ED POL 903 – HISTORY OF EDUCATION OF MULTICULTURAL AMERICA**

3 credits.

Selected topics, issues and themes concerning the history of education of various groups of people of color in the United States, as well as selected issues, topics and themes focusing on immigration and ethnicity.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY/ED POL 906 – PROSEMINAR ON THE HISTORY OF EDUCATION**

1-3 credits.

Reading in European or American educational history.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**HISTORY/ED POL 907 – SEMINAR-HISTORY OF EDUCATION**

1-3 credits.

Studies in European and American educational history.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**HISTORY 910 – HISTORY OF COLONIAL NORTH AMERICA**

3 credits.

The history of North America from the fifteenth through eighteenth centuries, with the primary focus on Anglo-America.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY/JOURN 919 – SEMINAR-HISTORY OF MASS COMMUNICATION**

3 credits.

Seminar in the history of mass communication in which students are expected to produce original research based on primary documents.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**HISTORY 925 – SEMINAR-AMERICA IN THE CIVIL WAR ERA**

2-3 credits.

Politics, society, and economics from the sectional crisis through the fall of southern reconstruction.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**HISTORY 929 – LABOR AND WORKING CLASS HISTORY IN THE UNITED STATES**

3 credits.

This course is a reading seminar intended to introduce students to key topics, seminal works, and historiographic controversies in U.S. working class and labor history from the post-Civil War period to the present.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2011**HISTORY/GEOG 932 – SEMINAR IN AMERICAN ENVIRONMENTAL HISTORY**

3 credits.

Surveys recent and classic works on American environmental history to introduce students to the methods and historiography of the field.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY 936 – THE HISTORY OF WOMEN AND GENDER IN THE U.S., TO 1870**

3 credits.

Surveys key theoretical work and secondary literature on the history of women and gender in the United States to 1870.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**HISTORY 937 – THE HISTORY OF WOMEN AND GENDER IN THE U.S. SINCE 1870**

3 credits.

Examines major and path breaking scholarship in the field of U.S. women's history, focusing on the era post 1870. Pays particular attention to race, class and sexuality as students learn to conduct a historical, gender analysis. Seminar format.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2009



**HISTORY/GEN&WS 938 – HISTORY OF SEXUALITY**

3 credits.

Using sexuality as a category of historical analysis, examines historiographical, methodological, and theoretical contributions to understanding all aspects of the past.

**Requisites:** Sr st or Grad st, cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**HISTORY 940 – SEMINAR-AMERICAN HISTORY 1900-1945**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**HISTORY/AMER IND 941 – INDIANS AND EMPIRES**

3 credits.

Examining the centuries of imperial competition in Native America, this seminar explores recent developments in early American Indian history.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**HISTORY/AMER IND 942 – AMERICAN INDIAN HISTORY, 1800-PRESENT**

3 credits.

A readings course on American Indian resistance, adaptation, and revival during the U.S. National period.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2009**HISTORY 943 – RACE & NATIONALISM: COMPARATIVE & THEORETICAL PERSPECTIVES**

3 credits.

Graduate seminar on historical intersections of race and nationalisms. Explores questions of the origin of race and nationalisms, the position and status of a variety of nationalisms and anti-colonial nationalisms; and the contemporary debates over postmodernism, postindustrialism, postcolonialism, and multiculturalism.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY 945 – SEMINAR-AMERICAN HISTORY 1929 TO THE PRESENT**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**HISTORY 951 – SEMINAR-INTELLECTUAL HISTORY OF AMERICA**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**HISTORY 952 – SEMINAR IN COMPARATIVE HISTORY**

2-3 credits.

**Requisites:** Cons inst and masters degree**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2013**HISTORY 958 – SEMINAR-AMERICAN MILITARY HISTORY**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**HISTORY/RELIG ST 963 – AMERICAN RELIGIOUS HISTORY TO 1860**

3 credits.

The creation of a national religious culture from the earliest settlements to the mid-nineteenth century.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**HISTORY 965 – SEMINAR IN THE HISTORY OF THE AMERICAN WEST**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2012



**HISTORY 974 – SEMINAR IN AMERICAN HISTORY FOR ADVANCED PLACEMENT TEACHERS**

1-2 credits.

Graduate-level seminar for high school teachers attending the UW-Madison Summer AP Institute. Reading and discussion designed to deepen teachers' knowledge of historical issues and historiography, and introduce new perspectives into their classes.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2010**HISTORY 975 – PRACTICUM IN AMERICAN HISTORY FOR ADVANCED PLACEMENT TEACHERS**

1-2 credits.

Graduate-level practicum for high school teachers attending the UW-Madison Summer AP Institute. How to improve techniques for teaching college-level courses in American history, with an emphasis on integrating primary sources into the curriculum.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2010**HISTORY/L I S 976 – SPECIAL PROBLEMS IN ARCHIVES-MANUSCRIPTS ADMINISTRATION**

3 credits.

A research seminar. Contemporary problems in archives administration, with special types of archival institutions and special classes of archival material.

**Requisites:** LIS 734 or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2011**HISTORY/L I S 977 – THE PRACTICE OF ARCHIVES-MANUSCRIPTS ADMINISTRATION**

3 credits.

Practical training in the collecting and accessioning, arrangement, describing and servicing of archives and manuscript holdings in the Division of Archives and Manuscripts of the State Historical Society under the direct supervision of the chief archivist or a member of the professional staff.

**Requisites:** LIS 734 or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2010**HISTORY 978 – TEACHING COLLEGE HISTORY: INTRODUCTION TO UNDERGRADUATE PEDAGOGY**

2 credits.

Embracing the art of teaching as a key skill, and acknowledging that the desire to teach is one of the main motivations for graduate study, this course aims to translate passion for history and humanities education into practical skills for classroom success. We will explore how research on learning and teaching can be leveraged to maximize positive impact on student learning, create meaningful learning experiences for all students, grade effectively, fairly, and efficiently while minimizing time commitments and frustrations. This course should lessen the burden of graduate student teaching by helping students learn how to preemptively avoid problems and enable undergraduate success. We will develop techniques for reaching all students where they are and helping them develop as historians and thinkers.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**HISTORY/SOC/URB R PL 979 – SEMINAR IN URBAN HISTORY**

3 credits.

Causes and consequences of urbanization, stressing social and economic aspects of major population movements, with particular attention to the United States.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**HISTORY/A A E/ANTHRO/C&E SOC/GEOG/LACIS/POLI SCI/PORTUG/SOC/SPANISH 982 – INTERDEPARTMENTAL SEMINAR IN THE LATIN-AMERICAN AREA**

1-3 credits.

Interdisciplinary inquiry in Latin American society and culture.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HISTORY/AFRICAN/ANTHRO/ECON/GEOG/POLI SCI 983 – INTERDEPARTMENTAL SEMINAR-AFRICAN STUDIES**

3 credits.

Interdisciplinary inquiry in African society and culture.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016

**HISTORY 990 – RESEARCH AND THESIS**

1-9 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HISTORY 999 – INDEPENDENT WORK**

1-6 credits.

Properly qualified graduate students may, by agreement with the major professor, undertake special out-of-class work, generally upon research problems, during the recesses of the University. This special work available only to graduate students who have the master's degree or equiv.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HISTORY OF SCIENCE (HIST SCI)****HIST SCI/ENVIR ST/HISTORY 125 – GREEN SCREEN: ENVIRONMENTAL PERSPECTIVES THROUGH FILM**

3 credits.

From Teddy Roosevelt's 1909 African safari to the Hollywood blockbuster King Kong, from the world of Walt Disney to The March of the Penguins, cinema has been a powerful force in shaping public and scientific understanding of nature throughout the twentieth and twenty-first century. How can film shed light on changing environmental ideas and beliefs in American thought, politics, and culture? And how can we come to see and appreciate contested issues of race, class, and gender in nature on screen? This course will explore such questions as we come to understand the role of film in helping to define the contours of past, present, and future environmental visions in the United States, and their impact on the real world struggles of people and wildlife throughout the world.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HIST SCI/MED HIST 133 – BIOLOGY AND SOCIETY, 1950 - TODAY**

3 credits.

From medical advancements to environmental crises and global food shortages, the life sciences are implicated in some of the most pressing social issues of our time. This course explores events in the history of biology from the mid-twentieth century to today, and examines how developments in this science have shaped and are shaped by society. In the first unit, we investigate the origins of the institutions, technologies, and styles of practice that characterize contemporary biology, such as the use of mice as "model organisms" for understanding human diseases. The second unit examines biological controversies such as the introduction of genetically modified plants into the food supply. The final unit asks how biological facts and theories have been and continue to be used as a source for understanding ourselves.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HIST SCI 180 – FRESHMAN HONORS SEMINAR: HISTORY OF SCIENCE, TECHNOLOGY AND MEDICINE**

3 credits.

Introduction to the history of science, technology and medicine through in-depth examination of a specific theme or topic.

**Requisites:** Open to Fr only or with cons inst**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2016**HIST SCI 201 – THE ORIGINS OF SCIENTIFIC THOUGHT**

3 credits.

Emergence of scientific method and scientific modes of thought out of ancient philosophical and religious traditions; the impact of ancient science on medieval Christendom; the origins and development of the Copernican-Newtonian world view. Not open to stdts who have taken ILS 201 or Hist Sci 323, except by cons inst

**Requisites:** Open to Fr.**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HIST SCI 202 – THE MAKING OF MODERN SCIENCE**

3 credits.

Major trends and developments in the sciences from the 17th century to the early 20th century. Emphasis on those with broad cultural and social implications. Open to Fr

**Requisites:** Not open to stdts who have had Hist of Sci 204.**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**HIST SCI 203 – SCIENCE IN THE TWENTIETH CENTURY: A HISTORICAL OVERVIEW**

3 credits.

Major themes in the physical, biological and environmental sciences from 1890 to the present, with attention to conceptual development, interaction of science and society, philosophical issues, and personalities in science.

**Requisites:** Open to Fr**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**HIST SCI/ASTRON 206 – HISTORY OF ASTRONOMY AND COSMOLOGY**

3 credits.

The development of astronomical knowledge and cosmological views from the earliest times to the present, viewed in their social, philosophical, and technological contexts.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HIST SCI/MED HIST 212 – BODIES, DISEASES, AND HEALERS: AN INTRODUCTION TO THE HISTORY OF MEDICINE**

3 credits.

A survey of different conceptions of how the body as a site of sickness has been understood from Antiquity to contemporary medicine. Includes consideration of the origins and evolution of public health, the changing social role of healers, and the emergence of the modern "standardized" body in health and illness.. For honors credit consent required in Hist Sci/ Hist Med 284 or consent of instructor

**Requisites:** Open to Freshmen.**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HIST SCI/MED HIST 218 – HISTORY OF TWENTIETH CENTURY AMERICAN MEDICINE**

3 credits.

This undergraduate lecture course introduces students to the development of the modern American medical care system.

**Requisites:** Open to Fr**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**HIST SCI 222 – TECHNOLOGY AND SOCIAL CHANGE IN HISTORY**

3 credits.

Topics in the history of technology of interest to students in engineering and physical sciences. Themes include the social basis of technical change, the impact of technology on everyday life, and ethical issues in technology in the last two centuries.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**HIST SCI/C&E SOC 230 – AGRICULTURE AND SOCIAL CHANGE IN WESTERN HISTORY**

3 credits.

Agricultural practices and social history from prehistoric times to the present. Topics include origins of agriculture, feudalism, agriculture in the Industrial Revolution, farming in America, and the consequences of the Green Revolution.

**Requisites:** Open to Fr**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**HIST SCI 250 – SPECIAL TOPICS IN HISTORY OF SCIENCE (INTRODUCTORY)**

3 credits.

Special topics in the history of science, medicine, and technology, aimed for students at the introductory (fresh-soph) level.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**HIST SCI/AFROAMER/MED HIST 275 – SCIENCE, MEDICINE, AND RACE: A HISTORY**

3 credits.

Surveys the medical and scientific constructions of categories of race, placing the development of racial theories in a broad social and political context. The course will pay particular attention to the importance of racial science in slavery and colonialism.

**Requisites:** Open to Fr**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016

**HIST SCI 280 – HONORS SEMINAR: STUDIES IN SCIENCE, TECHNOLOGY, MEDICINE**

3 credits.

Intensive exploration of issues in the history of science. Emphasis on developing critical thinking about science through formal and informal writing. Open to non-honors stdts with cons inst. Open to Fr

**Requisites:** Communications Requirement Part A must be satisfied.

**Course Designation:** Gen Ed - Communication Part B

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HIST SCI/MED HIST 284 – PHYSICIAN IN HISTORY (HONORS)**

1 credit.

Honors course for students enrolled concurrently for honors in History of Science 212. Open to non-honors students with consent of instructor. Open to Fr

**Requisites:** Con reg for honors in Hist Sci/ Hist Med 212 or cons inst.

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**HIST SCI 286 – HONORS SEMINAR: STUDIES IN SCIENCE, TECHNOLOGY, MEDICINE**

3 credits.

Intensive exploration of issues in the history of science. Emphasis on developing critical thinking about science through discussion of readings and written exercises. Open to non-honors students with cons inst.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**HIST SCI/ECON 305 – DEVELOPMENT OF ECONOMIC THOUGHT**

3-4 credits.

Development of economic thought from the middle ages to the present; emphasis on major schools of thought including Classical, Marxian, Neo-Classical, and Keynesian schools.

**Requisites:** Any two intro econ courses or cons inst

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HIST SCI/MEDIEVAL 322 – ANCIENT AND MEDIEVAL SCIENCE**

3 credits.

Scientific ideas and institutions from the beginnings of Greek philosophy to the Renaissance. Grads must enroll concurrently in Hist Sci 622

**Requisites:** Jr st or cons inst.

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**HIST SCI/HISTORY 323 – THE SCIENTIFIC REVOLUTION: FROM COPERNICUS TO NEWTON**

3 credits.

An introduction to the formative period of modern science, including major ideas and events in the physical and life sciences from Copernicus to Newton. Grads enroll concurrently in Hist Sci 623

**Requisites:** Jr st or cons inst.

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HIST SCI/HISTORY 324 – SCIENCE IN THE ENLIGHTENMENT**

3 credits.

Development and triumph of Newton's gravitational law; the conceptual revolution in chemistry; earth history and the move from religious to natural cosmologies. 4th credit requires extra work.

**Requisites:** Jr st

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**HIST SCI 325 – HISTORY OF PHYSICS: THE CLASSICAL PERIOD**

3 credits.

Major themes in the development of physics in the eighteenth and nineteenth centuries.

**Requisites:** Jr st

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**HIST SCI 326 – HISTORY OF PHYSICS: THE MODERN PERIOD**

3 credits.

Major themes in the development of physics in the twentieth century.

**Requisites:** Jr st

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**HIST SCI/MED HIST/RELIG ST 331 – SCIENCE, MEDICINE AND RELIGION**

3-4 credits.

Science, medicine and religion from antiquity to the present, with emphasis on Western civilization.

**Requisites:** Jr st and cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2011**HIST SCI/MED HIST 333 – HISTORY OF MODERN BIOLOGY**

3 credits.

Survey of major developments in biology and related sciences ca. 1700-1950. Topics include morphology and embryology; evolutionary theory, ecology, and genetics; physiology and recent experimental biology.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**HIST SCI 337 – HISTORY OF TECHNOLOGY**

3 credits.

A survey of Western technology within its social and cultural context during the past 1000 years. Topics include technology in European expansion, the industrial revolution, and the rise of the United States as a technological superpower. Grads must enroll concurrently in Hist Sci 637

**Requisites:** Jr st or cons inst.**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**HIST SCI 339 – TECHNOLOGY AND ITS CRITICS SINCE WORLD WAR II**

3 credits.

Examines expert and popular criticism of technology from World War II to the present. Topics include atomic fallout, consumer society, Ralph Nader's critique of auto safety, environmentalism, the movement against nuclear power, critics in the counterculture, and appropriate technology. Grad stdts must enroll concurrently in Hist Sci 639

**Requisites:** Jr st or cons inst.**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2013**HIST SCI 343 – THE DARWINIAN REVOLUTION**

3 credits.

Scientific, social, religious and related dimensions of the evolution hypothesis from pre-darwinian speculation and Darwin's own work to later support, criticism and continuing investigation. Coverage reaches into the twentieth century.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HIST SCI 350 – SPECIAL TOPICS IN THE HISTORY OF SCIENCE**

2-3 credits.

**Requisites:** So honors or Jr st**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HIST SCI/ENVIR ST 353 – HISTORY OF ECOLOGY**

3 credits.

The development of the science of ecology and related scientific issues and social attitudes, with a primary emphasis on developments from the late nineteenth century to the present.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**HIST SCI/ENVIR ST/LCA/RELIG ST 356 – ISLAM, SCIENCE & TECHNOLOGY, AND THE ENVIRONMENT**

3-4 credits.

Survey of Muslim religious understandings of science, technology, nature and environment. Lectures and readings present a global perspective through case studies, covering sources such as the Qur'an, theology and law, and traditions of esoteric piety (mysticism), and historical and contemporary issues like medical ethics, virtual realities, and environmental change, challenge and crisis.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015

**HIST SCI/HISTORY/MED HIST 394 – SCIENCE IN AMERICA**

3 credits.

From the colonial period to the present; emphasis on the development of scientific institutions and the influence of science on American life.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HIST SCI/S&A PHM 401 – HISTORY OF PHARMACY**

2 credits.

Pharmaceutical field, from antiquity to modern medical care; professional; structuring in principal countries of the West.

**Requisites:** Junior standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HIST SCI/GEN&WS/MED HIST 431 – CHILDBIRTH IN THE UNITED STATES**

3 credits.

American women's childbirth experiences from the colonial period to the present. Childbirth as a cultural as well as a biological event. Basic physiological information for understanding and evaluating changing approaches to pregnancy and childbirth.

**Requisites:** Women St 103 or 430 or equiv; or cons inst**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HIST SCI/MATH 473 – HISTORY OF MATHEMATICS**

3 credits.

An historical survey of the main lines of mathematical development.

**Requisites:** Cons inst**Course Designation:** Breadth - Either Humanities or Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HIST SCI/HISTORY/MED HIST 504 – SOCIETY AND HEALTH CARE IN AMERICAN HISTORY**

3 credits.

Lecture-seminar. Health care in America since the colonial period; emphasis on social developments.

**Requisites:** Jr st cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**HIST SCI/HISTORY/MED HIST 507 – HEALTH, DISEASE AND HEALING I**

3-4 credits.

Medicine in Europe from antiquity to the 18th century, investigating changes in medical ideas, institutions, practices, and organization.

**Requisites:** Jr st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**HIST SCI/HISTORY/MED HIST 508 – HEALTH, DISEASE AND HEALING II**

3-4 credits.

Medicine in Europe from the 18th century to mid-20th century, investigating changes in disease and demography, state interest in health care, the medical professions, and both scientific and alternative medical ideas.

**Requisites:** Jr st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2014**HIST SCI/MED HIST 509 – THE DEVELOPMENT OF PUBLIC HEALTH IN AMERICA**

3 credits.

Seminar. Health problems in the U.S. from the colonial period to the twentieth century; efforts made toward their solutions.

**Requisites:** Jr st cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HIST SCI 512 – GALILEO GALILEI: LIFE, WRITINGS, AND INTERPRETATIONS**

3-4 credits.

Galileo's life and writings in political and cultural context. Special attention to the theory of motion, telescopic discoveries, condemnation by the Inquisition (including primary documents), and to contrasting interpretations of his work, motivations, and contributions.

**Requisites:** So honors or Jr st**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2012



**HIST SCI/ENVIR ST/MED HIST 513 – ENVIRONMENT AND HEALTH IN GLOBAL PERSPECTIVE**

3 credits.

Explores the historical relationships between environmental change and human health from the 17th through the 20th century. Topics include colonialism and disease, medical geography, urban pollution and reform, workplace hazards, environmental risk, and the anti-toxics and environmental justice movements.

**Requisites:** Jr st**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**HIST SCI/GEOSCI 514 – HISTORY OF GEOLOGIC THOUGHT**

3 credits.

Major concepts from earliest to modern times.

**Requisites:** Sr st, GEOSCI 100 or 101 204 or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**HIST SCI/AFROAMER/MED HIST 523 – RACE, AMERICAN MEDICINE AND PUBLIC HEALTH**

3 credits.

The course will provide historical perspectives on current dilemmas facing black patients and health care professionals.

**Requisites:** Jr or Sr st**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HIST SCI/GEN&WS/MED HIST 524 – THE MEDICAL HISTORY OF SEX AND SEXUALITY**

3 credits.

Examines the changing place of medicine and scientific authority in public and private sexual lives. Highlights the role of medicine in defining appropriate sexual behavior, understanding the cause of sexual deviance, and treating sexual problems and diseases.

**Requisites:** Prev history (incl med hist hist sci) crse preferred**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2009**HIST SCI/GEN&WS/MED HIST 531 – WOMEN AND HEALTH IN AMERICAN HISTORY**

3 credits.

Women as patients and as health professionals in America from the colonial period to the present.

**Requisites:** Jr st cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**HIST SCI/GEN&WS/MED HIST 532 – THE HISTORY OF THE (AMERICAN) BODY**

3 credits.

This course demonstrates that human bodies have social and cultural histories. It will highlight the social values placed on different bodies, the changing social expectations bodies create, and the role of science and medicine in creating the cultural meanings of bodies.

**Requisites:** Women St 103 or other women's studies crse required; prev hist (incl med hist hist sci) crse preferred**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**HIST SCI/HISTORY/MED HIST 543 – DOCTORS AND DELUSIONS: MADNESS AND MEDICINE IN THE MODERN ERA**

3 credits.

Medical approaches to mental illness from 1750 to the present. Emphasis on how tension between biomedical and socio-environmental theories about psychopathology have marked modern psychiatry. Focus on Europe and the United States with global and comparative dimensions.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2011**HIST SCI/MED HIST 550 – MEDICAL TECHNOLOGIES IN HISTORICAL PERSPECTIVE**

3 credits.

Focusing upon the 18th- to 21st-century U. S. and building upon earlier European history, the course explores the ways that a range of technologies - e.g. stethoscopes, spirometers, x-rays, hospital design, pharmaceuticals, gene and cell therapies, telemedicine, etc. - have shaped medicine and invited social critique.

**Requisites:** Junior or Senior standing.**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015

**HIST SCI/MED HIST/POP HLTH 553 – INTERNATIONAL HEALTH AND GLOBAL SOCIETY**

3 credits.

Major problems in international health from 1750 to the present. Focus on disease epidemiology and ecology; political economy of health; migration; quarantine; race, ethnicity, and health care; international health research; cross-cultural healing; mental and maternal health; growth of international health organizations.

**Requisites:** Jr or Sr st, or cons inst**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HIST SCI/MED HIST 554 – A HISTORY OF WESTERN DISABILITY**

3 credits.

Offers a wide range of arguments about the nature of disability, from pre-history to the 21st century. Explores the history of disability in Western thought and practice and the formulation of personhood, citizenship, and social well being.

**Requisites:** None**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**HIST SCI 555 – UNDERGRADUATE SEMINAR IN HISTORY OF SCIENCE**

3 credits.

Introduction to research in history of science.

**Requisites:** Hist of sci majors only-initial preference to Srs**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**HIST SCI/CLASSICS/HISTORY/MED HIST/S&A PHM 561 – GREEK AND ROMAN MEDICINE AND PHARMACY**

3 credits.

Greek and Roman medicine and drug lore from the Pre-Socratics to Oribasius (c. 600 B.C. - A.D. 350), including the backgrounds of ancient Egyptian and Mesopotamian medicine.

**Requisites:** Junior standing**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**HIST SCI/HISTORY/MED HIST/MEDIEVAL/S&A PHM 562 – BYZANTINE MEDICINE AND PHARMACY**

3 credits.

Byzantine and Islamic medicine and drug lore from Oribasius to the beginnings of the Italian Renaissance (c. 350 - c. 1400 A.D.).

**Requisites:** Junior standing**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**HIST SCI/HISTORY/MED HIST 564 – DISEASE, MEDICINE AND PUBLIC HEALTH IN THE HISTORY OF LATIN AMERICA AND THE CARIBBEAN**

3 credits.

This course examines the history of illness and medical practice in Latin America and the Caribbean from the colonial era until the present. Using an interdisciplinary set of sources, students will explore the different meanings of disease, body normativity, medical practice, and ideas about public health across different historical circumstances in the region.

Include Graduate and Professional level

**Requisites:** Junior standing or above.**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**HIST SCI/ENGL/MED HIST 599 – DIRECTED STUDY IN HEALTH AND THE HUMANITIES**

1 credit.

Offers students enrolled in the Health and the Humanities certificate an opportunity to conduct independent research under the guidance of a faculty member. It allows students who have enrolled in or completed HIST SCI/MED HIST/ENGL 525: Health and the Humanities Capstone an opportunity to go into greater depth on a topic covered in the capstone course. In consultation with a faculty member, students will design a project that builds on lessons learned or work completed as part of their capstone experience.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**HIST SCI 615 – THE HISTORY OF EVOLUTIONARY THOUGHT**

3 credits.

Biological and geological foundations, preliminary speculations, the Darwinian synthesis, and its substantiation.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**HIST SCI 622 – STUDIES IN ANCIENT AND MEDIEVAL SCIENCE**

1 credit.

Advanced readings in primary and secondary literature of the history of ancient and medieval science, with emphasis on historiographic issues.

**Requisites:** Grad st; con reg in Hist Sci 322 or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013

**HIST SCI 623 – STUDIES IN EARLY MODERN SCIENCE**

1 credit.

Advanced readings in primary and secondary literature of the history of the 16th-17th century European science, with emphasis on current historiographic issues.

**Requisites:** Grad st; con reg in Hist Sci 323 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HIST SCI 637 – STUDIES IN HISTORY OF TECHNOLOGY**

1 credit.

Advanced readings in primary and secondary literature of the history of technology, with emphasis on historiographic issues.

**Requisites:** Grad st; con reg in Hist Sci 337 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**HIST SCI 639 – STUDIES IN TECHNOLOGY & ITS CRITICS SINCE WORLD WAR II**

1 credit.

Graduate readings and discussion on expert and popular criticism of technology from World War II to the present.

**Requisites:** Grad st; con reg in Hist Sci 339

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**HIST SCI/MED HIST 668 – TOPICS IN HISTORY OF MEDICINE**

3 credits.

Upper-level special topics course in the history of medicine.

**Requisites:** Jr st

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**HIST SCI 681 – SENIOR HONORS THESIS**

3 credits.

Honors thesis for history of science majors.

**Requisites:** Open to honors majors in hist sci, cons inst required

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2013

**HIST SCI 682 – SENIOR HONORS THESIS**

3 credits.

Honors thesis for history of science majors. Continuation of 681.

**Requisites:** Open to honors majors in hist sci, cons inst required

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

**HIST SCI 691 – SENIOR THESIS**

3 credits.

Senior thesis for history of science majors. Research and writing on an original topic.

**Requisites:** Open to hist sci majors, cons inst required

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2009

**HIST SCI 692 – SENIOR THESIS**

3 credits.

Senior thesis for history of science majors. Continuation of 691.

**Requisites:** Open to hist sci majors, cons inst required

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2009

**HIST SCI 698 – DIRECTED STUDY**

1-3 credits.

Cr/N. Graded on a Cr/N basis; requires cons inst

**Requisites:** Jr st.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2009

**HIST SCI 699 – DIRECTED STUDY**

1-3 credits.

Graded on a lettered basis; requires cons inst

**Requisites:** Jr st.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**HIST SCI/ENVIR ST/MED HIST 713 – STUDIES IN ENVIRONMENT AND HEALTH**

1 credit.

Advanced readings in primary and secondary literature of environment and health, with emphasis on current historiographic issues.

**Requisites:** Grad st, or con reg in Hist Med 513 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**HIST SCI 720 – PROSEMINAR: HISTORIOGRAPHY AND METHODS**

3 credits.

Philosophies, methods, and sources in the history of science, and their relations to the current state of scholarship.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HIST SCI/MED HIST 743 – DOCTORS AND DELUSIONS: MADNESS AND MEDICINE IN THE MODERN ERA**

1 credit.

Advanced readings in primary and secondary literature of the history of psychiatry, with emphasis on historiographical issues.

**Requisites:** Grad st con reg in Med Hist 543, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**HIST SCI 903 – SEMINAR: MEDIEVAL, RENAISSANCE, AND 17TH CENTURY SCIENCE**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**HIST SCI 907 – SEMINAR: HISTORY OF TECHNOLOGY**

3 credits.

Research and readings on a topic of current interest in history of technology.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**HIST SCI 909 – HISTORY OF BIOLOGY AND MEDICINE**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**HIST SCI 911 – SEMINAR-EIGHTEENTH CENTURY SCIENCE**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HIST SCI/MED HIST 915 – SEMINAR: SCIENCE IN AMERICA**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2012

**HIST SCI/MED HIST 919 – GRADUATE STUDIES IN MEDICAL HISTORY**

3 credits.

Three seminars analyzing the scientific and social aspects of the development of modern medicine in Europe and America; one seminar exclusively on public health.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**HIST SCI 921 – SEMINAR-SPECIAL TOPICS**

3 credits.

Offered occasionally. Topics not treated in regular courses.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

**HIST SCI 925 – SEMINAR: RESEARCH AND THESIS**

1-3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**HIST SCI 950 – HISTORY OF SCIENCE COLLOQUIUM**

1 credit.

Intended for graduate majors in History of Science and required of graduate majors in History of Science during their first two semesters.

**Requisites:** History of Science major; Grad st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**HIST SCI 990 – RESEARCH AND THESIS**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**HIST SCI 999 – INDEPENDENT WORK**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HORTICULTURE (HORT)****HORT 1 – COOPERATIVE EDUCATION/CO-OP IN HORTICULTURE**

1 credit.

Full-time off-campus work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career. Students receive credit only for the term in which they are actively enrolled and working. The same work experience may not count towards credit in HORT 399.

**Requisites:** So st, and consent of supervising instructor and academic advisor.**Repeatable for Credit:** Yes, unlimited number of completions**HORT 120 – SURVEY OF HORTICULTURE**

3 credits.

For the beginning student. Scientific basis for horticultural practices; scope of the field of horticulture; introduction to propagation, culture, management, improvement, storage, and marketing of flowers, fruits, ornamentals and vegetables.

**Requisites:** None**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HORT 121 – HORTICULTURE COLLOQUIUM**

1 credit.

Overview of world, national, and regional horticulture plants and industries presented by various faculty. History and profiles of research advancing horticulture presented by department faculty.

**Requisites:** Open to Fr**Repeatable for Credit:** No**Last Taught:** Fall 2017**HORT 227 – PROPAGATION OF HORTICULTURAL PLANTS**

3 credits.

Methods of propagation of herbaceous and woody plants, fundamental anatomical and physiological principles underlying sexual and asexual propagation of plants. Open to Fr

**Requisites:** An intro course in botany.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HORT 234 – ORNAMENTAL PLANTS**

3 credits.

On-site identification and description, aesthetic qualities and uses, environmental requirements and adaptability of selected ornamental plants with emphasis on annuals, herbaceous perennials, and those used for interior design. Three credits, offered every Fall.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**HORT/PL PATH 261 – SUSTAINABLE TURFGRASS USE AND MANAGEMENT**

2 credits.

Sustainable use and management of turfgrass landscapes in urban and suburban environments, including home lawns, golf courses, and sports fields. Focus is on creating sustainable and attractive turfgrass landscapes through proper species selection, use of slow-release or organic fertilizer practices, and minimizing the use of pesticides and supplemental irrigation.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**HORT/PL PATH 262 – TURFGRASS MANAGEMENT LABORATORY**

1 credit.

Hands-on turf establishment, cool- and warm-season grass, seed and weed identification, chemical application, and turf cultivation techniques and equipment use, plus field trips to major league sport facilities and golf courses.

**Requisites:** HORT/PL PATH 261 or concurrent enrollment**Repeatable for Credit:** No**Last Taught:** Fall 2017**HORT/LAND ARC 263 – LANDSCAPE PLANTS I**

3 credits.

Field identification, landscape characteristics, uses, environmental requirements, adaptability of woody ornamental plants; their autumn and winter character.

**Requisites:** An intro botany crse or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HORT 289 – HONORS INDEPENDENT STUDY**

1-2 credits.

Inter-Ag 288

**Requisites:** Enrolled in the CALS Honors Prgm Sophomore or Junior standing.**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions



**HORT 299 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Open to Freshmen, Sophomore or Junior standing written consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**HORT/F&W ECOL/LAND ARC/PL PATH 309 – DISEASES OF TREES AND SHRUBS**

3 credits.

Fundamental disease concepts, pathogens and causal agents, diagnosis, and biologically rational principles and practices for management of diseases of trees and shrubs. For degree students and professionals. One extended lecture with discussion and one lab or field trip per week.

**Requisites:** One semester of plant sci or consent of instructor

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HORT 320 – ENVIRONMENT OF HORTICULTURAL PLANTS**

3 credits.

Fluctuations and regulations of temperature, light, water, carbon dioxide and pollutants in natural and controlled environments. Effects upon plant growth and development. Adaptive mechanisms. Significance of air ions, electromagnetic fields and other geophysical factors.

**Requisites:** Crse in intro hort or intro bot

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HORT/AGRONOMY/SOIL SCI 326 – PLANT NUTRITION MANAGEMENT**

3 credits.

Functions, requirements and uptake of essential plant nutrients; chemical and microbial processes affecting nutrient availability; diagnosis of plant and soil nutrient status; fertilizers and efficient fertilizer use in different tillage systems.

**Requisites:** Soil Sci 230 or 301 and one of the following: Bot 100 or 130; HORT 120 or 122; Agron 100

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HORT/AGRONOMY 328 – INTEGRATED WEED MANAGEMENT**

4 credits.

Prevalence and persistence of weeds, evaluation of competitive and allelopathic effects, methods and principles of control including proper identification of common weed species.

**Requisites:** Agron 100 or intro crse in botany or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**HORT/SOIL SCI 332 – TURFGRASS NUTRIENT AND WATER MANAGEMENT**

3 credits.

Nutrient requirements of turfgrasses; nature of turfgrass response to fertilization; soil and tissue testing methodology and interpretation; irrigation scheduling; irrigation water quality; use of irrigation and fertilizer to minimize environmental impact; writing effective nutrient management plans.

**Requisites:** Soil Sci/Hort/Agron 326

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**HORT 334 – GREENHOUSE CULTIVATION**

2 credits.

Principles of selection, production, handling, use of fruits, vegetables, flowers, and foliage plants grown indoors. One-day field trip required.

**Requisites:** Intro botany course or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HORT 335 – GREENHOUSE CULTIVATION LAB**

1 credit.

Provide students with hands-on experience in and understanding of greenhouse cultivation. This course is the optional lab component of Horticulture 334 Greenhouse Cultivation.

**Requisites:** Horticulture 334 or concurrent registration or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HORT/AGRONOMY 338 – PLANT BREEDING AND BIOTECHNOLOGY**

3 credits.

Principles of transferring plant genes by sexual, somatic, and molecular methods and the application of gene transfer in plant breeding and genetic engineering to improve crop plants.

**Requisites:** BOTANY/BIOLOGY 130 or Genetics 160 or Biocore 301 or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**HORT/AGRONOMY/BOTANY 339 – PLANT BIOTECHNOLOGY: PRINCIPLES AND TECHNIQUES I**

4 credits.

Theoretical and practical training in plant biotechnology including molecular biology, protein biochemistry and basic bioinformatic techniques used in fundamental and applied research on plants. Valuable hands-on training to those interested in careers in biotechnology.

**Requisites:** Bot/Zoo 152 or equiv CHEM 104 or equiv

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HORT/AGRONOMY/BOTANY 340 – PLANT CELL CULTURE AND GENETIC ENGINEERING**

4 credits.

Theoretical and practical training in plant cell and tissue culture, and plant genetic engineering. Includes overview of current techniques, biosafety and regulatory requirements, and experimental design and analysis used in fundamental and applied research on plants. Valuable hands-on training to those interested in careers in biotechnology.

**Requisites:** BOTANY/BIOLOGY 130 or Botany/Zoology/BIOLOGY/BOTANY/ZOOLOGY 152 or ZOOLOGY/BIOLOGY 102, and Chemistry 104, 109, or 116

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HORT 345 – FRUIT CROP PRODUCTION**

3 credits.

Survey of fruit production, emphasizing commercial production of temperate fruits. Fruit origin, history, classification, physiology, genetics, harvest and postharvest handling. Open to Fr

**Requisites:** Hort 122 or equiv.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**HORT 350 – PLANTS AND HUMAN WELLBEING**

2 credits.

Plants provide not only the foundation of food, clothing, and shelter essential for human existence, but also some of the key raw materials for transcendence and abstraction through music, art, and spirituality. Since antiquity, we have co-evolved with plants and their derivative products, with each exerting a domesticating force on the other. It is, for example, impossible to think of our modern life without its plant-based accompaniments in the form of cotton, sugar, bread, coffee, and wood. Yet they are so ubiquitous we may forget they all derive from plants discovered, domesticated, bred, and farmed for millennia in a never-ending pursuit to improve our wellbeing. This course will explore major points of intersection between plants and human wellbeing from a horticultural point of view. Each week, we will highlight a plant or group of plants that represent a primary commodity or resource through which humans have pursued their own aims. We will examine this plant with hands-on demonstrations and produce extracts and preparations to more deeply explore its effects and impacts in human society. This course is open to all students, and has no prerequisites.

**Requisites:** None

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HORT/AGRONOMY/ENTOM/PL PATH/SOIL SCI 354 – DIAGNOSING AND MONITORING PEST AND NUTRIENT STATUS OF FIELD CROPS**

1 credit.

This course is designed to provide students with information necessary to diagnosis and monitor corn, soybean, alfalfa and wheat for pests (insects, weeds, diseases) and nutrient deficiency symptoms including perspectives from Agronomy, Entomology, Horticulture, Plant Pathology and Soil Science. Proper soil and pest sampling information will be provided as will proper crop staging techniques which are essential for pest and nutrient management.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HORT/AGRONOMY 360 – GENETICALLY MODIFIED CROPS: SCIENCE, REGULATION & CONTROVERSY**

2 credits.

Explores how and why genetically modified (GM) crops are created and their regulation at the federal and state level. Through case studies, students will learn about the impacts of GM crops and critically evaluate arguments both for and against their use. Readings and discussion introduce students to the complex economic, cultural, and political issues surrounding GM crops.

**Requisites:** BIOLOGY/BOTANY/BIOLOGY 130, BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151, BIOCORE 381, BOTANY/GENETICS/ZOOLOGY 160, BOTANY/GENETICS/ZOOLOGY 466, or BIOLOGY/ZOOLOGY/BIOLOGY 101

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HORT 370 – WORLD VEGETABLE CROPS**

3 credits.

An overview of the importance of fresh and processed vegetables worldwide. Vegetable origin, history, classification, culture, marketing, physiology, genetics, handling, quality, significance in world cultures and diets. Open to Freshmen

**Requisites:** A course in horticulture and a course in biology.

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HORT 372 – COLLOQUIUM IN ORGANIC AGRICULTURE**

1 credit.

Colloquium in which faculty, regional professionals, local organic farmers and students will present and discuss topics relevant to history, marketing, economics, production and social context of organic and sustainable agriculture.

**Requisites:** At least So st

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HORT 374 – TROPICAL HORTICULTURE**

2 credits.

Fall semester colloquia on tropical ecology and crops followed by two-week long winter break (January) field trip to Costa Rica and Nicaragua.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**HORT 375 – SPECIAL TOPICS**

1-4 credits.

Specialized subject matter of current interest to undergrads.

**Requisites:** Cons inst

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**HORT 376 – TROPICAL HORTICULTURAL SYSTEMS**

1 credit.

This course will highlight the interactions between tropical plants and society. How plants are obtained, the systems used to raise the crops, the specific plants that are used and how we use these in the context of local and global markets, have a profound implication on food security, the resilience of the farming systems and the conservation of natural habitats. Class discussions will include reflections on the origins of the tropical crops, the roles of plants in our daily lives, and the effects of our daily choices on the environment, climate change, human health, water access, conflicts, poverty, and development. We will do an overview of tropical horticulture and survey some of the social, scientific and environmental problems associated with the utilization of plants for subsistence, health, aesthetics, and cultural practices.

**Requisites:** Junior standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HORT 378 – TROPICAL HORTICULTURAL SYSTEMS INTERNATIONAL FIELD STUDY**

2 credits.

This international field study will meet during the winter intercession in a tropical country in Central America. We will reflect on the role of plants in our daily lives and the effects that our daily choices have on the environment, human health, conflicts, poverty, and development.

This course will provide an opportunity to develop a holistic appreciation of horticulture by highlighting the interactions between plants and society. We will discuss some of the social, scientific and environmental challenges that conventional, sustainable and organic horticulture practices face in the production, marketing, and use of tropical crops.

The field study will provide an opportunity to contextualize what students learned during the course "Tropical Horticultural Systems" (HORT 376).

We will visit diverse agricultural systems, such as small farms, large-scale operations, market growers, and industrial export businesses. In addition, we will visit agronomic centers, botanical gardens, herbaria, germplasm banks, and nature preserves.

**Requisites:** HORT 376

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**HORT 399 – COORDINATIVE INTERNSHIP/COOPERATIVE EDUCATION**

1-8 credits.

**Requisites:** So, Jr or Sr st cons supervising inst, advisor, and internship program coordinator

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**HORT 400 – STUDY ABROAD IN HORTICULTURE**

1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. W.-Madison Study Abroad Program

**Requisites:** Current registration in a U.**Repeatable for Credit:** Yes, unlimited number of completions**HORT 410 – UNDERGRADUATE SEMINAR**

1 credit.

**Requisites:** Horticulture major with at least 5 credits in Hort, or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2009**HORT 461 – ADVANCED TURFGRASS MANAGEMENT AND PHYSIOLOGY**

3 credits.

Interacting effects of environmental stresses on turfgrass physiology/growth in relation to management practices. Discussion of new and conventional management systems. Use of biotechnology and plant breeding for improving turfgrass.

**Requisites:** HORT/PL PATH 261 intro botany crse**Repeatable for Credit:** No**Last Taught:** Fall 2011**HORT/PATH-BIO 500 – MOLECULAR BIOLOGY TECHNIQUES**

3 credits.

The objective of the course is to familiarize students with recombinant DNA technology. This will be accomplished through lectures as well as hands on exposure to methodologies used in molecular biology laboratories.

**Requisites:** BIOCHEM 501 or 621 or GENETICS 466 or Bact 303, 304 or cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HORT/AGRONOMY 501 – PRINCIPLES OF PLANT BREEDING**

3 credits.

Principles involved in breeding and maintaining economic crops; factors affecting the choice of breeding methods; alternative approaches through hybridization and selection.

**Requisites:** Intro crse in genetics, 1 yr biol**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HORT/AGRONOMY 502 – TECHNIQUES OF PLANT BREEDING**

1 credit.

Lab and field techniques used in breeding and maintaining economic crops.

**Requisites:** An intro crse in genetics 1 yr of biology**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HORT/F&W ECOL/SOIL SCI 524 – URBAN SOIL AND ENVIRONMENT**

3 credits.

Many environmental issues related to urbanization are derived from the manipulation of soil. By coupling contemporary literature in urban soils with soil science, students will be able to evaluate environmental issues within the urban environment and provide new ways of remediating their impact.

**Requisites:** Soil Sci 301 or 230**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**HORT/GENETICS 550 – MOLECULAR APPROACHES FOR POTENTIAL CROP IMPROVEMENT**

3 credits.

Introduction of basic concepts of plant molecular biology and molecular techniques in current use. Topics include: organization and regulation of plant genes, gene cloning and analysis, transformation systems for plants, and molecular techniques for crop improvement.

**Requisites:** BIOCHEM 501 and GENETICS 466 or equiv courses**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**HORT/BOTANY/GENETICS 561 – INTRODUCTORY CYTOGENETICS**

2-3 credits.

Mitosis, meiosis, variations in chromosome structure and number, cytological aspects of hybridity and apomixis; chromosomes as they affect breeding behavior.

**Requisites:** Genetics, Botany, Zoology 466 or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015

**HORT/F&W ECOL/STAT 571 – STATISTICAL METHODS FOR BIOSCIENCE I**

4 credits.

Descriptive statistics, distributions, one- and two-sample normal inference, power, one-way ANOVA, simple linear regression, categorical data, non-parametric methods; underlying assumptions and diagnostic work.

**Requisites:** College algebra: Grad st or cons inst

**Course Designation:** Gen Ed - Quantitative Reasoning Part B  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HORT/F&W ECOL/STAT 572 – STATISTICAL METHODS FOR BIOSCIENCE II**

4 credits.

Continuation of Forestry 571. Polynomial regression, multiple regression, two-way ANOVA with and without interaction, split-plot design, subsampling, analysis of covariance, elementary sampling, introduction to bioassay.

**Requisites:** Stats/Forestry/HORT/F&W ECOL/STAT 571

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HORT/BOTANY/SOIL SCI 626 – MINERAL NUTRITION OF PLANTS**

3 credits.

Essential and beneficial elements, solutions and soil as nutrient sources, rhizosphere chemistry, nutritional physiology, ion uptake and translocation, functions of elements, nutrient interactions, genetics of plant nutrition.

**Requisites:** Botany 350 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HORT 681 – SENIOR HONORS THESIS**

2-4 credits.

**Requisites:** Honors program candidacy

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**HORT 682 – SENIOR HONORS THESIS**

2-4 credits.

Continuation of 681. Honors program candidacy HORT 681

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**HORT 699 – SPECIAL PROBLEMS**

1-4 credits.

**Requisites:** Sr st cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**HORT 799 – PRACTICUM IN HORTICULTURE TEACHING**

1-3 credits.

Instructional orientation to teaching at the higher education level in the agricultural and life sciences, direct teaching experience under faculty supervision, experience in testing and evaluation of students, and the analysis of teaching performance.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**HORT/AGRONOMY 811 – BIOMETRICAL PROCEDURES IN PLANT BREEDING**

3 credits.

Use of statistical methods to facilitate improvements in quantitative traits of cultivated plants.

**Requisites:** Intro crses in genetics stat

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HORT/AGRONOMY 812 – SELECTION THEORY FOR QUANTITATIVE TRAITS IN PLANTS**

2 credits.

Discuss advanced topics in selection theory and the utilization of molecular markers in selection.

**Requisites:** AGRONOMY/HORT/AGRONOMY 811

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2006

**HORT/AGRONOMY 850 – ADVANCED PLANT BREEDING**

3 credits.

Concepts in improvement of major crop species. Historically important breeding methods and new approaches. Lectures and discussion.

**Requisites:** Agron/HORT/AGRONOMY 338 or 501 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**HORT 875 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HORT 910 – SEMINAR**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**HORT/AGRONOMY/GENETICS 957 – SEMINAR-PLANT BREEDING**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HORT 990 – RESEARCH**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## HUMAN DEVELOPMENT AND FAMILY STUDIES (HDFS)

**HDFS 299 – INDEPENDENT STUDY**

1-3 credits.

Directed study projects for freshmen and sophomores as arranged with a faculty member.

**Requisites:** Consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2006**HDFS 362 – DEVELOPMENT OF THE YOUNG CHILD**

3 credits.

This course provides a basic foundation for understanding development from conception through middle childhood. Content includes theoretical foundations, research findings, and practical applications.

**Requisites:** None**Course Designation:** Breadth - Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HDFS 363 – DEVELOPMENT FROM ADOLESCENCE TO OLD AGE**

3 credits.

This course provides a basic foundation for understanding development from adolescence through old age. Content includes theoretical foundations, research findings, and practical applications.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HDFS 425 – RESEARCH METHODS IN HUMAN DEVELOPMENT AND FAMILY STUDIES**

3 credits.

Basics of research design used in studying family studies and individual development over the life course. Quantitative and qualitative research designs, participatory action research, and evaluation research, how research informs intervention and prevention programs.

**Requisites:** HDFS 362, ED PSYCH 320, PSYCH 460, or HDFS 363 (or PSYCH 560 prior to Fall 2017)**Repeatable for Credit:** No**Last Taught:** Fall 2017**HDFS 464 – PLAY-DEVELOPMENT AND ROLE ACROSS THE LIFESPAN**

3 credits.

The role and function of play (and playfulness) in promoting development across the lifespan.

**Requisites:** HDFS 362, ED PSYCH 320, or PSYCH 460 (or PSYCH 560 prior to Fall 2017)**Repeatable for Credit:** No**Last Taught:** Spring 2013**HDFS/CNSR SCI 465 – FAMILIES & POVERTY**

3 credits.

This course introduces students to research at the intersection of family and poverty studies. We will learn how family behaviors vary by socioeconomic status; how romantic relationships, childbearing, and childrearing may be implicated in poverty; what the consequences of poverty are for family functioning and children; and about the role of policy in influencing families and poverty.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**HDFS 469 – FAMILY AND COMMUNITY INFLUENCES ON THE YOUNG CHILD**

3 credits.

Interaction of child in socialization settings, especially the family; socialization processes in the social system of child-family-community.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017



**HDFS 471 – PARENT - CHILD RELATIONS**

3 credits.

Parents' interaction with their children, programs for parents, and parents' interactions with other institutions.

**Requisites:** HDFS 362, ED PSYCH 320, PSYCH 460, or HDFS 363 (or PSYCH 560 prior to Fall 2017)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HDFS 474 – RACIAL ETHNIC FAMILIES IN THE U.S.**

3 credits.

Examines the diversity of family life and human development across and within racial ethnic groups in the United States as shaped by race, ethnicity, culture, biculturalism, and the social contexts of history, economics, immigration, and socio-political conditions.

**Requisites:** Sophomore standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HDFS 478 – DEVELOPMENT OF BLACK CHILDREN AND THEIR FAMILIES: RESEARCH AND POLICY**

3 credits.

Developmental and social change issues related to Black American children and their families. Race-related socialization of children, early development in rural and urban Black families, exploration of theoretical paradigms, as well as the impact of social change on empirical research and theoretical perspectives.

**Requisites:** Sophomore standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**HDFS 501 – SPECIAL TOPICS**

1-3 credits.

Specialized subject matter of current interest to undergraduate students.

**Requisites:** Prerequisites vary by topic

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**HDFS 516 – STRESS AND RESILIENCE IN FAMILIES ACROSS THE LIFESPAN**

3 credits.

Examines family stress and resilience across the life cycle from psychological, sociological, and biosocial perspectives. Explores research relating to normative and non-normative family stress and resiliency factors. Topics include parenting, poverty, violence, work-family balance, aging, health and wellness and others.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HDFS 517 – COUPLE RELATIONSHIPS**

3 credits.

Romantic relationships are universally desired, and individuals around the globe agree about what successful intimacy entails: we all want to be loved, supported, and cared for by partners we hold in high esteem. Nevertheless, intimate relationships can be difficult to form and maintain. This course covers a range of theoretical perspectives and methodologies to understand how it is that intimate relationships develop, thrive, or deteriorate over time. The course will also connect intimate relationship science to real life experiences.

**Requisites:** Sophomore standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HDFS/AFROAMER/SOC WORK 521 – AFRICAN AMERICAN FAMILIES**

3 credits.

Historical background; variations in contemporary family patterns; courtship and marriage, reproduction, and socialization stresses; "culture of poverty" theories; sources of stability and change.

**Requisites:** Junior standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2011

**HDFS/AMER IND 522 – AMERICAN INDIAN FAMILIES**

3 credits.

Interdisciplinary examination of American Indian families in historical and contemporary contexts. Emphasizes the changing experience and structure of Native families in response to changing political, economic, social, and cultural pressures and policies over the past 200 years and contemporary challenges.

**Requisites:** Junior standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**HDFS 535 – A FAMILY PERSPECTIVE IN POLICYMAKING**

3 credits.

Students will explore the relationship between family functioning and public/private policies at the local, state and federal levels; analyze the consequences of issues, policies or programs on family well-being; and, examine roles for professionals in influencing policy development.

**Requisites:** Junior standing

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**HDFS 592 – RESEARCH EXPERIENCE IN HUMAN DEVELOPMENT AND FAMILY STUDIES**

1-3 credits.

Research experience under the supervision of a faculty member in Human Development and Family Studies.

**Requisites:** Consent of instructor**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HDFS 601 – INTERNSHIP**

1-8 credits.

Enables students with supervised internships to earn academic credit while engaged in a professional experience in human development and family studies related fields. Course intended for juniors and seniors in Human Development and Family Studies.

**Requisites:** Consent of instructor**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HDFS/COM ARTS/JOURN 616 – MASS MEDIA AND YOUTH**

3 credits.

Children's and adolescents' use of mass media and mass media effects on them. Particular attention is given to changes in comprehension and other cognitive activities that give insights into media use and effects.

**Requisites:** JOURN 202, COM ARTS 325, HDFS 362, ED PSYCH 320, PSYCH 460, or LSC 251 (or PSYCH 560 prior to Fall 2017)**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HDFS/INTER-HE 650 – PARENT EDUCATION AND SUPPORT PROGRAMS**

3 credits.

The purposes, contexts, and implementation of parenting support and education programs are studied. Some sections may include a service learning component.

**Requisites:** HDFS 362, ED PSYCH 320, or PSYCH 460 (or PSYCH 560 prior to Fall 2017)**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**HDFS 662 – ADVANCED STUDY OF THE YOUNG CHILD**

3 credits.

Research literature and current theories; topics of individual interest.

**Requisites:** HDFS 362, ED PSYCH 320, or PSYCH 460 (or PSYCH 560 prior to Fall 2017)**Repeatable for Credit:** No**Last Taught:** Spring 2013**HDFS 663 – DEVELOPMENTAL AND FAMILY ASSESSMENT**

3 credits.

Introduces students to the process of family-focused developmental assessment with infants and young children, including family interviewing, taking developmental histories, observing children, and developmental screening.

**Requisites:** HDFS 362, ED PSYCH 320, or PSYCH 460 (or PSYCH 560 prior to Fall 2017)**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**HDFS 664 – PROSEMINAR: HUMAN DEVELOPMENT AND FAMILY STUDIES**

1-3 credits.

Survey and introduction to children and families. Required of all first year graduate students in Human Development and Family Studies. Credit varies by semester.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2013**HDFS 680 – SENIOR HONORS THESIS**

2-4 credits.

Individual study for seniors completing theses for Human Ecology honors degrees as arranged with a faculty member.

**Requisites:** Consent of instructor**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**HDFS 690 – SENIOR THESIS**

2 credits.

Individual study for seniors completing theses as arranged with a faculty member.

**Requisites:** Consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2000**HDFS 699 – INDEPENDENT STUDY**

1-6 credits.

Directed study projects for juniors and seniors as arranged with a faculty member.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**HDFS/ED PSYCH 725 – THEORY AND ISSUES IN HUMAN DEVELOPMENT**

3 credits.

This course covers both classic and contemporary theories, providing students with a firm grounding in the theoretical perspectives that have shaped and are shaping understandings of human development across the life-span. The course explores the historical roots of contemporary perspectives and examines the development of theoretical conceptualizations both within and across theoretical perspectives.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**HDFS/COUN PSY/ED PSYCH 726 – ETHNIC AND RACIAL DIVERSITY IN SOCIAL DEVELOPMENT**

3 credits.

Review of empirical and theoretical research on ethnic/racial diversity in social development across childhood, adolescence and early adulthood with emphasis on implications for counseling and school psychology.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**HDFS 727 – CULTURE AND HUMAN DEVELOPMENT**

3 credits.

This seminar examines a wide set of issues related to understanding the role of culture in processes of human growth and maturation, and a related set of issues dealing with how we research culture and human development.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2009**HDFS 760 – INFANCY AND THE FAMILY**

3 credits.

Understanding of infants' socio-emotional, language, cognitive, perceptual and motor development within the context of the family and other social settings. Issues related to early developmental psychopathology and intervention will also be covered.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**HDFS 761 – CHILDHOOD AND THE FAMILY**

3 credits.

Explores family socialization topics relevant to development issues in the early and middle childhood. Relevant contextual issues i.e. class, caste, culture and gender will be interfaced with traditional topics such as, sex stereotyping, racial identity, play, social competence, attachment, moral development and aggression.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**HDFS 763 – AGING AND THE FAMILY**

3 credits.

Psychological and social aspects of aging. Interaction of aged individual with the family and larger social systems. Developmental principles, methodological considerations, theoretical/empirical issues, and findings.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**HDFS 765 – FAMILIES & POVERTY**

3 credits.

Introduce students to research on families and poverty. Students learn how family behaviors vary by socioeconomic status; how romantic relationships, childbearing, and childrearing may be implicated in poverty; what the consequences of poverty are for family functioning and children; and about the role of policy in influencing families and poverty.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**HDFS 766 – CURRENT TOPICS IN HUMAN DEVELOPMENT AND FAMILY STUDIES**

1-3 credits.

Specialized subject matter of current interest to graduate students. Literature, research, and current trends, with implications for teaching, parent education, and other professions. Prerequisites vary by topic

**Requisites:** Graduate or professional standing.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017

**HDFS/COM ARTS 817 – COUPLE RELATIONSHIPS: THEORY, RESEARCH, AND APPLICATION**

3 credits.

This course will review current research on the nature, dynamics, and developmental course of couple relationships and explore the implications of this scientific knowledge for prevention/intervention programs and policy. Contemporary theories and empirical research will be examined.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**HDFS 818 – ATTACHMENT THEORY AND RELATIONSHIPS ACROSS THE LIFESPAN**

3 credits.

Examines parent-child and intimate relationships using attachment theory and research (and critiques of this approach), focusing on relationships formed in infancy and across the lifespan.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**HDFS/CURRIC 841 – THE EDUCATIONAL ROLE OF THE FAMILY IN EARLY CHILDHOOD DEVELOPMENT**

3 credits.

Socialization practices associated with development and education in early childhood; focus on parental teaching practices which influence techniques, communication styles, and cognitive styles within the context of social class and family structure; emphasis on theory, research, and educational applications.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**HDFS 842 – PARENT-CHILD RELATIONS ACROSS THE LIFE COURSE**

3 credits.

Parent-child relations as a dynamic reciprocal process from an interdisciplinary and multicultural perspective. Historical and contemporary views on parenthood across the life course will be covered in the context of traditional and nontraditional family forms.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**HDFS 843 – FAMILY POLICY: HOW IT AFFECTS FAMILIES & WHAT PROFESSIONALS CAN DO**

3 credits.

Covers how policies affect families and whether policies would be more effective if approached from a family perspective. Students will learn theories for conceptualizing family policy, how to conduct family impact analysis, and strategies for connecting research and policymaking.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**HDFS 865 – FAMILY THEORY I (SURVEY)**

3 credits.

An advanced course which surveys the current theories and models used in family research and theory development. Focus will be on structure-functional, interactional, developmental, systems, and exchange theory in relation to family research and application.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**HDFS 869 – ADVANCED SEMINAR IN FAMILY STRESS AND COPING**

3 credits.

Emphasis on theoretical explanations of family stress from various levels of analysis—individual, social network, family, community, and larger social context. Considers sources of stress and how families experience, respond to, cope with, and resolve stress.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**HDFS 872 – BRIDGING THE GAP BETWEEN RESEARCH AND ACTION**

3 credits.

Addresses the critical skills and methods needed to gather and apply research-based knowledge and theory to human development and family studies. Strategies for conducting research relevant to social policy, programs, and the general public will be discussed as well as techniques for communicating research.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HDFS/ED PSYCH/NURSING/SOC WORK 880 – PREVENTION SCIENCE**  
3 credits.

This course provides a theoretical, empirical and practical foundation for prevention science as it relates to the prevention of human social problems. Research and evaluation methods, program design strategies, best practices and policy as they relate to the field of prevention are also examined. Intended for 2nd year graduate students.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**HDFS/ED PSYCH/NURSING/SOC WORK 881 – CAPSTONE SEMINAR IN PREVENTION SCIENCE**  
1 credit.

This course provides an opportunity for students to meet with prevention professionals and scholars from across campus and the community to explore current and emerging issues of prevention research and professional practice. Students must complete HDFS/ED PSYCH/NURSING/SOC WORK 880 before taking this course.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**HDFS 990 – RESEARCH AND THESIS**  
1-12 credits.

Independent research and writing for graduate students under the supervision of a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**HDFS 999 – INDEPENDENT STUDY**  
1-3 credits.

Directed study projects for graduate students as arranged with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**HUMAN ONCOLOGY (H ONCOL)****H ONCOL/MED PHYS 410 – RADIOBIOLOGY**  
2-3 credits.

Effects of ionizing radiations of living cells and organisms, including physical, chemical, and physiological bases of radiation cytotoxicity, mutagenicity, and carcinogenesis; lecture and lab.

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**H ONCOL/B M E/MED PHYS/PHYSICS 501 – RADIOLOGICAL PHYSICS AND DOSIMETRY**  
3 credits.

Interactions and energy deposition by ionizing radiation in matter; concepts, quantities and units in radiological physics; principles and methods of radiation dosimetry.

**Requisites:** Calculus and modern physics

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**H ONCOL 510 – TOPICS IN ONCOLOGY**  
1-3 credits.

As a topics course in human oncology, the topics will vary. D.

**Requisites:** Undergrad basic math or physics or basic biology or pharmacology or M.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2013

**H ONCOL 681 – SENIOR HONORS THESIS IN HUMAN ONCOLOGY 1**  
3-4 credits.

Independent research in the area of human oncology including biology, medical physics, or clinical oncology. A written thesis is required in the final semester.

**Requisites:** Senior standing and consent of instructor

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**H ONCOL 682 – SENIOR HONORS THESIS IN HUMAN ONCOLOGY 2**  
3-4 credits.

Independent research in the area of human oncology including biology, medical physics, or clinical oncology. A written thesis is required in the final semester.

**Requisites:** Consent of instructor

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**H ONCOL 691 – SENIOR THESIS IN HUMAN ONCOLOGY 1**

3-4 credits.

Independent research in the area of human oncology including biology, medical physics, or clinical oncology. A written thesis is required in the final semester.

**Requisites:** Senior standing and consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2015**H ONCOL 692 – SENIOR THESIS IN HUMAN ONCOLOGY 2**

3-4 credits.

Independent research in the area of human oncology including biology, medical physics, or clinical oncology. A written thesis is required in the final semester.

**Requisites:** Senior standing and consent of instructor**Repeatable for Credit:** No**Last Taught:** Spring 2016**H ONCOL 699 – INDEPENDENT STUDY IN HUMAN CANCER BIOLOGY**

1-3 credits.

Tutorial lab/library research and study. Opportunity for learning in depth without a thesis requirement. Maximum cumulative credits: 9.

**Requisites:** Human Onc 402 and/or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**H ONCOL/MED PHYS 812 – RADIATION MEDICINE PHYSICS CLERKSHIP**

2 credits.

Allows students to observe and participate in the application of medical physics principles in the clinical setting. Under supervision, students will perform the functions of a clinical medical physicist in radiation medicine.

**Requisites:** B M E/H ONCOL/MED PHYS/PHYSICS/B M E/H ONCOL/MED PHYS 501 and B M E/MED PHYS/B M E 566**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2008**H ONCOL 910 – INDEPENDENT READING AND RESEARCH FOR FOURTH YEAR MEDICAL STUDENTS**

1-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014**H ONCOL 922 – RADIATION ONCOLOGY-CSC**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**H ONCOL 990 – RESEARCH IN HUMAN CANCER BIOLOGY**

1-12 credits.

Graduate thesis research.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## INDUSTRIAL AND SYSTEMS ENGINEERING (I SY E)

**I SY E 1 – COOPERATIVE EDUCATION PROGRAM**

1 credit.

Work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career in industry.

**Requisites:** So st**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**I SY E 191 – THE PRACTICE OF INDUSTRIAL ENGINEERING**

1 credit.

An introduction to industrial engineering subject matter areas, problem types, and design/analysis approaches, techniques, and methodologies. Special emphasis on formulation and design alternatives for problem solving. Not open to students with advance standing in I.E.

**Requisites:** Open to Fr**Repeatable for Credit:** No**Last Taught:** Spring 2011**I SY E 313 – ENGINEERING ECONOMIC ANALYSIS**

3 credits.

Financial accounting principles and cost systems, interpretation and use of accounting reports and supplemental information for engineering economic analyses, consideration of cost-volume-profit analyses, use of discounted cash flow techniques, flexible budgeting, transfer pricing, and capital budgeting.

**Requisites:** MATH 217, 221, or 275 or concurrent registration**Repeatable for Credit:** No**Last Taught:** Fall 2017**I SY E 315 – PRODUCTION PLANNING AND CONTROL**

3 credits.

Techniques and applications of control concepts in the design of inventory, production, quality, and project-planning systems; use of the computer as a component in such systems.

**Requisites:** STAT 311, STAT 324, or MATH/STAT/MATH 431 or concurrent enrollment**Repeatable for Credit:** No**Last Taught:** Fall 2017

**I SY E 320 – SIMULATION AND PROBABILISTIC MODELING**

3 credits.

Analysis of stochastic systems using both analytic methods and computer simulation. Empirical and theoretical models of arrival and service processes. State spaces and state transition probabilities. Simulation of queuing and manufacturing systems. Continuous time Markov analysis of manufacturing systems.

**Requisites:** STAT 311 or equiv, STAT 312 or con reg, MATH 320 or MATH 340

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**I SY E 321 – SIMULATION MODELING LABORATORY**

1 credit.

Computer exercises involving generation and analysis of random variables, spreadsheet models of queuing systems, use of simulation software packages. Project.

**Requisites:** Con reg in IE 320 or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**I SY E 323 – OPERATIONS RESEARCH-DETERMINISTIC MODELING**

3 credits.

Basic techniques for modeling and optimizing deterministic systems with emphasis on linear programming. Computer solution of optimization problems. Applications to production, logistics, and service systems.

**Requisites:** MATH 222, MATH 320 or MATH 340

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**I SY E 348 – INTRODUCTION TO HUMAN FACTORS ENGINEERING LABORATORY**

1 credit.

This course provides students with hands on experience applying concepts discussed in the course Introduction to Human Factors Engineering (ISyE 349). The students complete a small three-part design project. In addition, students learn how to measure light, sound, anthropometric, and psychophysiological data, and then apply these measurements to product and workplace design challenges. Non-ISyE students may be allowed to enroll based on space availability and consent of the instructor, on a first-come basis

**Requisites:** Concurrent registration in ISyE 349 and acceptance into the ISyE undergraduate or graduate program is required.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**I SY E/PSYCH 349 – INTRODUCTION TO HUMAN FACTORS**

3 credits.

This course conveys the importance of considering human capabilities and limits in system design and operation. This includes understanding human characteristics from the cognitive, physical, and psychosocial perspectives. Implications of these characteristics are explored through understanding the needs of people, designing to support these needs, and evaluating systems to ensure they serve the intended purpose. Case studies are used to identify the human role in accidents and to identify design improvements. Application domains include consumer product design, human-computer interaction, workplace safety, and complex systems such as healthcare delivery. Concurrent registration in ISyE 348 is required for ISyE majors.

**Requisites:** Introduction to probability or statistics (Statistics 224, 309, 311, 371, PSYCH 210, PSYCH 280, SOC/C&E SOC 360, Gen Bus 303, or comparable course) or concurrent registration.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**I SY E 350 – JUNIOR DESIGN LABORATORY**

3 credits.

This course introduces industrial engineering students to the tools needed for advanced design courses through experiential learning and hands-on opportunities to conduct experiments, take relevant measurements, analyze real-world data, design systems, and to make and test prototypes of their designs.

**Requisites:** Junior standing, declared in Industrial Engineering program, (COMP SCI 200, 300, 301 or 302), STAT 311, and I SY E 315

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**I SY E 389 – HONORS IN RESEARCH**

1-3 credits.

Undergraduate honors research projects supervised by faculty members. Not available for graduate credit.

**Requisites:** Admission to IE Undergraduate Honors in Research Program

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

**I SY E 412 – FUNDAMENTALS OF INDUSTRIAL DATA ANALYTICS**

3 credits.

This course will provide students with understanding of the fundamentals of using industrial data analytics techniques to transform from data-rich into decision-smart. It focuses on training students with the ability of formulating and solving real industrial problems with the appropriate modeling strategies and analytics principles for better decision making.

**Requisites:** STAT 311, MATH/STAT/MATH 309, or MATH/STAT/MATH 431

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**ISY E 415 – INTRODUCTION TO MANUFACTURING SYSTEMS, DESIGN AND ANALYSIS**

3 credits.

Introduction to the technologies, processes and systems of modern discrete part manufacturing. Emphasis on development of an understanding of the behavior of integrated systems.

**Requisites:** ISY E 315**Repeatable for Credit:** No**Last Taught:** Fall 2017**ISY E 417 – HEALTH SYSTEMS ENGINEERING**

3 credits.

Introduction to the application of industrial engineering methods to the analysis and improvement of health care delivery. Exploration of common problems of decision making and control in health care. Examination of social, regulatory and economic factors unique to health care.

**Requisites:** ISyE 320, ISyE 349**Repeatable for Credit:** No**Last Taught:** Fall 2017**ISY E/COMP SCI/MATH 425 – INTRODUCTION TO COMBINATORIAL OPTIMIZATION**

3 credits.

Focuses on optimization problems over discrete structures, such as shortest paths, spanning trees, flows, matchings, and the traveling salesman problem. We will investigate structural properties of these problems, and we will study both exact methods for their solution, and approximation algorithms.

**Requisites:** (MATH 320, 340, 341, or 375) or graduate or professional standing**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ISY E 450 – SENIOR DESIGN PROJECT**

3 credits.

This course will provide students a team-based project experience to address a real-world design challenge posed by an external organization. Student-teams will work in close collaboration with the project client to design a new system or process, or redesign an existing one, by integrating and applying appropriate ISyE knowledge, methodologies and tools for problem definition and analysis; idea generation; solution development, evaluation and justification; and implementation planning and impact assessment.

**Requisites:** Senior standing in ISyE, and ISyE 313, ISyE 323, ISyE 349, ISyE 350, and either ISyE 415 or ISyE 417 (or concurrent registration in one of them), and EPD 397 (or concurrent registration in EPD 397)**Repeatable for Credit:** No**Last Taught:** Fall 2017**ISY E/CIV ENGR/N E 460 – UNCERTAINTY ANALYSIS FOR ENGINEERS**

3 credits.

This course introduces undergraduates to approaches for quantifying uncertainty in engineering analyses. Both analytical and computational methods are demonstrated.

**Requisites:** Statistics 311, MATH/STAT 431, or consent of instructor**Repeatable for Credit:** No**ISY E 476 – INDUSTRIAL ENGINEERING PROJECTS**

3 credits.

Complete design of an industrial engineering system in a real world setting, e.g., manufacturing, hospital, communications, food processing, distribution, transportation, etc.

**Requisites:** Ind Engr 320, 321, 349; EPD 397; or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2015**ISY E 489 – HONORS IN RESEARCH**

1-3 credits.

Undergraduate honors research projects supervised by faculty members. Not available for graduate credit.

**Requisites:** Admission to IE undergraduate Honors in Research Program**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2007**ISY E/M E 510 – FACILITIES PLANNING**

3 credits.

Introduction to plant location theory and analysis of models of plant location; models for determining plant size and time phasing; line balancing models; techniques for investigating conveyor and other material handling problems; and models of plant layout.

**Requisites:** IE 315, 323, 349 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ISY E/M E 512 – INSPECTION, QUALITY CONTROL AND RELIABILITY**

3 credits.

Inspection data for quality control; sampling plans for acceptance inspection; charts for process control. Introduction to reliability models and acceptance testing.

**Requisites:** STAT 224**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**I SY E/M E 513 – ANALYSIS OF CAPITAL INVESTMENTS**

3 credits.

A second course in quantitative methods for analyzing capital investments in technological environments, both public and private. Replacement models; comparison of alternative investment models; risk analysis; case studies.

**Requisites:** Ind Engr 313, Ind Engr 323, STAT 311**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2012**I SY E 515 – ENGINEERING MANAGEMENT OF CONTINUOUS PROCESS IMPROVEMENT**

3 credits.

This course addresses the role of the industrial engineer as a "manager" of continuous improvement in design and production processes. It provides modern tools and techniques for planning and managing team projects, integrating the concepts of total quality, data based decision making, and resource management.

**Requisites:** EPD 397 Sr or Grad st, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**I SY E 516 – INTRODUCTION TO DECISION ANALYSIS**

3 credits.

Overview of modeling techniques and methods used in decision analysis, including multiattribute utility models, decision trees, and Bayesian models. Psychological components of decision making are discussed. Elicitation techniques for model building are emphasized. Practical applications through real world model building are described and conducted.

**Requisites:** STAT 224, 311, 324, 371, MATH/STAT/MATH 309 or MATH/STAT/MATH 431**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**I SY E 517 – DECISION MAKING IN HEALTH CARE**

3 credits.

Introduction to the use of decision sciences in health-care. Conceptual understanding of medical decision making and its tools including decision trees, sensitivity analysis, Markov (decision) processes, and Monte Carlo simulations with examples from the current medical literature.

**Requisites:** STAT 311 and I SY E 323**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**I SY E 520 – QUALITY ASSURANCE SYSTEMS**

3 credits.

Introduces engineers to applications of total quality concepts and tools to develop, implement, and maintain an effective quality assurance system in a manufacturing or service organization. Emphasis is on documentation development, team-based improvement strategies, and international quality standards.

**Requisites:** Sr or Grad st, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**I SY E/COMP SCI/E C E 524 – INTRODUCTION TO OPTIMIZATION**

3 credits.

Introduction to mathematical optimization from a modeling and solution perspective. Formulation of applications as discrete and continuous optimization problems and equilibrium models. Survey and appropriate usage of basic algorithms, data and software tools, including modeling languages and subroutine libraries.

**Requisites:** (COMP SCI 200, 300, 301, 302, or 310) and (MATH 320, 340, 341, or 375) or graduate or professional standing**Course Designation:** Breadth - Natural Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**I SY E/COMP SCI/MATH/STAT 525 – LINEAR PROGRAMMING METHODS**

3 credits.

Real linear algebra over polyhedral cones; theorems of the alternative for matrices. Formulation of linear programs. Duality theory and solvability. The simplex method and related methods for efficient computer solution. Perturbation and sensitivity analysis. Applications and extensions, such as game theory, linear economic models, and quadratic programming.

**Requisites:** (MATH 320, 340, 341, 375, or 443) or graduate or professional standing**Course Designation:** Breadth - Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**I SY E/COMP SCI 526 – ADVANCED LINEAR PROGRAMMING**

3-4 credits.

Review of linear programming. Polynomial time methods for linear programming. Quadratic programs and linear complementarity problems and related solution techniques. Solution sets and their continuity properties. Error bounds for linear inequalities and programs. Parallel algorithms for linear and quadratic programs.

**Requisites:** COMP SCI/ISYE/MATH/STAT/COMP SCI/I SY E/MATH 525 and (COMP SCI 200, 300, 301, 302, or 310) or graduate or professional standing**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** No**Last Taught:** Fall 2015

**ISYE/PSYCH 549 – HUMAN FACTORS ENGINEERING**

3 credits.

Analysis and design of man-machine systems using human performance models and data. Emphasis on systems involving communication and control. Projects using digital and analog computer simulation techniques for system design.

**Requisites:** IE 349 or equiv**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ISYE 552 – HUMAN FACTORS ENGINEERING DESIGN AND EVALUATION**

3 credits.

Evaluation, analysis, and design recommendations for improving human performance and productivity in applied settings. Collection of instrument-based and user survey data. Emphasis on ergonomics, human factors and sociotechnical systems engineering approaches and problems. Design project required.

**Requisites:** Ind Engr 349 EPD 397, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**ISYE 555 – HUMAN PERFORMANCE AND ACCIDENT CAUSATION**

3 credits.

A systems view of accident causation, with emphasis on the human performance limitations important in industrial and other accidents. Models of causation, data collection systems, economic evaluation, and safety programs. Small group projects.

**Requisites:** IE 349 or PSYCH 225 or equivalent an intro stats crse or consent of instructor for Grad students**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ISYE 556 – OCCUPATIONAL SAFETY AND HEALTH ENGINEERING**

3 credits.

Introduction to the principles of safety and health hazards in the industrial environment. This course provides engineers with the fundamentals of measurement, evaluation, regulation, and control of hazardous conditions, toxic substances, physical agents, and dangerous processes in industrial operations.

**Requisites:** IE 349 or Grad st or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2009**ISYE/COMP SCI/ME 558 – INTRODUCTION TO COMPUTATIONAL GEOMETRY**

3 credits.

Introduction to fundamental geometric computations and algorithms, and their use for solving engineering and scientific problems. Computer representations of simple geometric objects and paradigms for algorithm design. Applications from areas of engineering analysis, design and manufacturing, biology, statistics, and other sciences.

**Requisites:** (COMP SCI 367 or 400) and MATH 234 or graduate or professional standing**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**ISYE/MED PHYS 559 – PATIENT SAFETY AND ERROR REDUCTION IN HEALTHCARE**

2 credits.

Techniques for evaluating and reducing risks in medical procedures, including probabilistic risk assessment methods, failure mode and effects analysis, human factors analysis, and quality management. Discussions of patient safety standards, recommendations from agencies, and continual quality improvement.

**Requisites:** Jr st or cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ISYE/BME 564 – OCCUPATIONAL ERGONOMICS AND BIOMECHANICS**

3 credits.

Introduces engineers how to design manufacturing and industrial operations in which people play a significant role, so that human capabilities are maximized, physical stress is minimized, and workload is optimized. Examples and topics emphasize industrial applications.

**Requisites:** ISYE 349, or Biomed Engr 315, or Grad standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ISYE/NE 574 – METHODS FOR PROBABILISTIC RISK ANALYSIS OF NUCLEAR POWER PLANTS**

3 credits.

Methods for risk and reliability analysis of engineered systems, particularly as applied in the nuclear power industry. Fault trees and event trees, Bayesian data analysis, probabilistic risk management. Some familiarity with nuclear plant safety systems is helpful, but not required.

**Requisites:** STAT 224**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016

**I S Y E 575 – INTRODUCTION TO QUALITY ENGINEERING**

3 credits.

Introduction to statistically based quality improvement methods useful in industrial settings; observational methods and design of experiments; experimentation to discover influential factors and to analyze sources of variation; robust products. There will be a one hour discussion section each week.

**Requisites:** One intro crse in statistical methods, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**I S Y E/OTM 578 – FACILITIES LOCATION MODELS**

3 credits.

The theory and methods of facility location. Plant and warehouse siting, plant layout problems and location of service facilities such as hospitals and fire stations. Cases of actual applications.

**Requisites:** OIM 410 or Ind Engr 323, or equivalent

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**I S Y E 601 – SPECIAL TOPICS IN INDUSTRIAL ENGINEERING**

1-3 credits.

In various areas. Sample topics: "Simulation" and "Systems Design".

**Requisites:** Junior standing and consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**I S Y E 602 – SPECIAL TOPICS IN HUMAN FACTORS**

3 credits.

Various special topics in human factors engineering. Course topic may vary from semester to semester. Different versions of this course may be offered in same semester.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2010

**I S Y E 605 – COMPUTER INTEGRATED MANUFACTURING**

3 credits.

An introduction to computer-integrated design and manufacturing with a focus on manufacturing process planning. Emphasis on concurrent engineering principles, manufacturing process engineering, computer-aided process planning, NC programming, and CAD/CAM integration. Course provides experience with CAD/CAM software and NC machines.

**Requisites:** Ind Engr 315 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**I S Y E/PHARMACY 608 – SAFETY AND QUALITY IN THE MEDICATION USE SYSTEM**

3 credits.

Addresses the problems of medication errors and quality in health care, problem resolutions, methods of assessment, and intervention implementation and quality management.

**Requisites:** Declared in Doctor of Pharmacy program with third year standing

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**I S Y E 610 – DESIGN OF PROGRAM EVALUATION SYSTEMS**

3 credits.

Design of systems for evaluating the effectiveness (efficiency, benefits, costs, resource utilization, contribution) of socio-technical systems. Measurement, analysis and interpretation of results including implications for engineering research. Extensive case studies.

**Requisites:** Sr or Grad st in ind engr or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**I S Y E 612 – INFORMATION SENSING AND ANALYSIS FOR MANUFACTURING PROCESSES**

3 credits.

Focuses on the sensing and multivariate data modeling and analysis techniques for monitoring, diagnosis, and quality improvement of manufacturing processes. The techniques introduced can find wide applications in health care, financial engineering, service industry applications, human factors, etc.

**Requisites:** MATH 320 STAT 311, Sr or Grad st, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**I S Y E 615 – PRODUCTION SYSTEMS CONTROL**

3 credits.

An intermediate to advanced course stressing the application of recent operations research techniques to production planning, scheduling and inventory control.

**Requisites:** IE 315, 320, 321, 323, STAT 311, 312

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**I SY E/B M I/L I S 617 – HEALTH INFORMATION SYSTEMS**

3 credits.

Provides grounding in core concepts of health information systems. Major applications include clinical information systems, language and standards, decision support, image technology and digital libraries. Evaluation of IE tools and perspectives designed to improve the quality, efficiency and effectiveness of health information.

**Requisites:** I SY E 417**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**I SY E/OTM 620 – SIMULATION MODELING AND ANALYSIS**

3 credits.

Introduction to simulation modeling and analysis techniques with application to production, logistics, service, and other systems. Emphasis on model building, application of basic statistical data analysis, and the use of simulation for design, evaluation, and improvement of such systems. Introduction to available software. Case studies.

**Requisites:** COMP SCI 302 and STAT 312**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**I SY E 624 – STOCHASTIC MODELING TECHNIQUES**

3 credits.

Techniques for modeling systems in which uncertainty is an essential factor. Emphasizes why, how and when techniques can or cannot be applied, rather than their mathematical derivation. Case studies and/or examples from such areas as logistics, production, and service industries.

**Requisites:** STAT 311, MATH 320 or MATH 340**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**I SY E/MATH/OTM/STAT 632 – INTRODUCTION TO STOCHASTIC PROCESSES**

3 credits.

Topics include discrete-time Markov chains, Poisson point processes, continuous-time Markov chains, and renewal processes. Applications to queueing, branching, and other models in science, engineering and business.

**Requisites:** MATH 531 or (MATH/STAT/MATH 431, MATH/STAT/MATH 309 or STAT 311) and (MATH 320, 340, 341, 375, or 421) or graduate standing**Course Designation:** Breadth - Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**I SY E/MATH/OTM 633 – QUEUING THEORY AND STOCHASTIC MODELING**

3 credits.

Reliability theory; coherent systems and reliability bounds. Markovian queues and Jackson networks. Steady-state behavior of general service time queues. Priority queues. Approximation methods and algorithms for complex queues. Simulation. Dynamic programming; applications to inventory and queueing.

**Requisites:** Math, Ind Engr 632 or cons inst**Course Designation:** Breadth - Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2010**I SY E/COMP SCI 635 – TOOLS AND ENVIRONMENTS FOR OPTIMIZATION**

3 credits.

Formulation and modeling of applications from computer sciences, operations research, business, science and engineering involving optimization and equilibrium models. Survey and appropriate usage of software tools for solving such problems, including modeling language use, automatic differentiation, subroutine libraries and web-based optimization tools and environments.

**Requisites:** (MATH 320, 340, 341, or 375) and (COMP SCI 200, 202, 300, 301, or 302) or graduate or professional standing or declared in the Capstone Certificate in Computer Sciences for Professionals**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**I SY E/M E 641 – DESIGN AND ANALYSIS OF MANUFACTURING SYSTEMS**

3 credits.

Covers a broad range of techniques and tools relevant to the design, analysis, development, implementation, operation and control of modern manufacturing systems. Case studies assignments using industry data will be used to elaborate the practical applications of the theoretical concepts. This course also serves as a capstone course for the MSMSE degree.

**Requisites:** Grads: MSE major or consent of instructor; Undergrads: IE 315 or 605, consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017



**I SY E/M E 643 – PERFORMANCE ANALYSIS OF MANUFACTURING SYSTEMS**

3 credits.

This course examines the state of the art in the use of stochastic network theory to develop performance models of modern manufacturing systems.

**Requisites:** ISyE 624 or ISyE 632, Comp Sci 302 or Comp Sci 367 or Graduate standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**I SY E 645 – ENGINEERING MODELS FOR SUPPLY CHAINS**

3 credits.

The course will provide an overview of engineering fundamentals behind supply chains. Topics covered will include modeling and design of multi-stage production distribution systems, multi-echelon inventory models, theory of supply chain contracts, value of flexibility and information sharing in supply chains.

**Requisites:** ISyE 323, ISyE 415

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**I SY E/PSYCH 652 – SOCIOTECHNICAL SYSTEMS**

3 credits.

Sociotechnical systems theory with applications to the design of organizations and jobs. Open systems and organizational environments. Analysis of the technical and social systems and techniques for "whole" system consideration. Organizational design strategy. Field site analyses by student teams.

**Requisites:** Grad st or IE 349

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**I SY E/PSYCH 653 – ORGANIZATION AND JOB DESIGN**

3 credits.

Design of productive organizations and people's roles within them. Issues including boundary location, organizational decision levels, autonomous work groups, implementation and diffusion. Roles of the union. Case studies.

**Requisites:** Grad st or IE 349

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**I SY E/B M E 662 – DESIGN AND HUMAN DISABILITY AND AGING**

3 credits.

Design of products for persons with physical, sensory or cognitive impairments is covered as well as the design of standard mass market products. Interdisciplinary teams explore specific disabilities, then design a standard mass market product in competition with each other.

**Requisites:** Jr st or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**I SY E/INFO SYS/OTM 671 – E-BUSINESS: TECHNOLOGIES, STRATEGIES AND APPLICATIONS**

3 credits.

Overview of core concepts of e-commerce and e-business technologies, strategies and applications. Covers business-to-consumer, business-to-business and intra-business models by using real-world examples and cases from various industries..

**Requisites:** Senior or Graduate standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**I SY E 699 – ADVANCED INDEPENDENT STUDY**

1-5 credits.

Under faculty supervision.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**I SY E 702 – GRADUATE COOPERATIVE EDUCATION PROGRAM**

1-2 credits.

Work experience that combines classroom theory with practical knowledge of operations to provide students with a background on which to develop and enhance a professional career. The work experience is tailored for MS students from within the U.S. as well as eligible international students.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017



**I SY E/POP HLTH 703 – QUALITY OF HEALTH CARE: EVALUATION AND ASSURANCE**

1-3 credits.

Implementation, oversight, and management of quality-oriented activities in health care settings. Overview of current and historical activities, approaches, and issues confronting health care related to quality assessment, assurance, and improvement.

**Requisites:** Major or minor in population health, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**I SY E/C&E SOC/N E/SOC 708 – SOCIETAL RISK MANAGEMENT OF TECHNOLOGICAL HAZARDS**

3 credits.

Issues involved in decision-making regarding technological risks and risk management in areas such as nuclear power, hazardous waste disposal, and pollution control. Risk perception and cognitive biases; risk analysis and decision analysis; political issues in risk management; regulatory mechanisms; and risk communication. Selected case studies.

**Requisites:** STAT 311 or MATH/STAT 431 or SOC/C&E SOC 360, IE 516, Grad st; or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**I SY E/COMP SCI 719 – STOCHASTIC PROGRAMMING**

3 credits.

Stochastic programming is concerned with decision making in the presence of uncertainty, where the eventual outcome depends on a future random event. Topics include modeling uncertainty in optimization problems, risk measures, stochastic programming algorithms, approximation and sampling methods, and applications. Students are strongly encouraged to have knowledge of linear programming (e.g., CS/ISyE/MATH/COMP SCI/I SY E/STAT 525) and probability and statistics (e.g., MATH/STAT 431). Knowledge of integer optimization (CS/I SY E/MATH/COMP SCI/I SY E 728) is helpful, but not required.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**I SY E/INFO SYS 722 – COMPUTER-BASED DATA MANAGEMENT**

3 credits.

Use, control and administration of centralized and distributed data bases. Topics include the definition, design, creation, revision, interrogation, update, security and integrity of data bases.

**Requisites:** Info Sys 371 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**I SY E/COMP SCI 723 – DYNAMIC PROGRAMMING AND ASSOCIATED TOPICS**

3 credits.

General and special techniques of dynamic programming developed by means of examples. Shortest-path algorithms. Deterministic equipment replacement models. Resource allocation problem. Traveling-salesman problem. Knapsack problem. Analysis of inventory systems. General stochastic formulations. Markovian decision processes. Students are strongly encouraged to have knowledge of mathematical optimization (e.g., COMP SCI/I SY E/MATH/STAT 525, I SY E 623, COMP SCI/I SY E/MATH/STAT 726), knowledge of analysis (e.g., MATH/STAT 431 or 521) and programming ability (e.g., COMP SCI 200 or 301)

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**I SY E/COMP SCI/MATH/STAT 726 – NONLINEAR OPTIMIZATION I**

3 credits.

Theory and algorithms for nonlinear optimization, focusing on unconstrained optimization. Line-search and trust-region methods; quasi-Newton methods; conjugate-gradient and limited-memory methods for large-scale problems; derivative-free optimization; algorithms for least-squares problems and nonlinear equations; gradient projection algorithms for bound-constrained problems; and simple penalty methods for nonlinearly constrained optimization. Students are strongly encouraged to have knowledge of linear algebra (e.g. MATH 320, MATH 433) and familiarity with basic mathematical analysis.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**I SY E/COMP SCI 727 – CONVEX ANALYSIS**

3 credits.

Convex sets in finite-dimensional spaces: relative interiors, separation, set operations. Convex functions: conjugacy, subdifferentials and directional derivations, functional operations, Fenchel-Rockafellar duality. Applications to operations research and related areas. Students taking this course are strongly encouraged to have had a course in basic analysis (e.g. MATH 521) and a course in linear algebra (e.g., MATH 340).

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**I SY E/COMP SCI/MATH 728 – INTEGER OPTIMIZATION**

3 credits.

Introduces optimization problems over integers, and surveys the theory behind the algorithms used in state-of-the-art methods for solving such problems. Special attention is given to the polyhedral formulations of these problems, and to their algebraic and geometric properties. Applicability of Integer Optimization is highlighted with applications in combinatorial optimization. Key topics include: formulations, relaxations, polyhedral theory, cutting planes, decomposition, enumeration. Students are strongly encouraged to have knowledge of Linear Programming (e.g., COMP SCI/I SY E/MATH/COMP SCI/I SY E/STAT 525), including algorithms, duality and polyhedral theory.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**I SY E/M H R 729 – BEHAVIORAL ANALYSIS OF MANAGEMENT DECISION MAKING**

3 credits.

Examination of behavioral science literature dealing with the processes by which individuals, small groups and organizations make decisions. Understanding decision-making behavior in order to improve managerial performance; modeling decision-making processes for systems design and theory building purposes.

**Requisites:** Intro course in mgmt processes intermediate course in stat**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**I SY E/COMP SCI/MATH 730 – NONLINEAR OPTIMIZATION II**

3 credits.

Theory and algorithms for nonlinearly constrained optimization. Relevant geometric concepts, including tangent and normal cones, theorems of the alternative, and separation results. Constraint qualifications. Geometric and algebraic expression of first-order optimality conditions. Second-order optimality conditions. Duality. Nonlinear programming algorithms: merit functions and filters; interior-point, augmented Lagrangian, and sequential quadratic programming algorithms.

**Requisites:** COMP SCI/I SY E/MATH/STAT/COMP SCI/I SY E/MATH 726**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**I SY E 790 – MASTER'S RESEARCH AND THESIS**

1-9 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**I SY E 816 – SPECIAL TOPICS IN SYSTEMS DESIGN**

1-3 credits.

Subjects vary.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014**I SY E 823 – SPECIAL TOPICS IN OPERATIONS RESEARCH**

1-3 credits.

Subjects vary.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**I SY E/PSYCH 854 – SPECIAL TOPICS IN ORGANIZATION DESIGN**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**I SY E/PSYCH 859 – SPECIAL TOPICS IN HUMAN FACTORS ENGINEERING**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**I SY E/POP HLTH 875 – COST EFFECTIVENESS ANALYSIS IN HEALTH AND HEALTHCARE**

3 credits.

Basic ideas and tools of cost effectiveness analysis as applied in evaluating medical technologies. Addresses special problems and methods in assessing diagnostic technologies, including ROC analysis, and in measuring health for technology assessment. Uses "classical" and current journal literature.

**Requisites:** POP HLTH/SOC/POP HLTH 797 and B M I/POP HLTH/ B M I 552**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**I SY E 890 – PRE-DISSERTATOR'S RESEARCH**

1-9 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**ISY E 961 – GRADUATE SEMINAR IN INDUSTRIAL ENGINEERING**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2011**ISY E 990 – RESEARCH AND THESIS**

1-6 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ISY E 999 – ADVANCED INDEPENDENT STUDY**

1-6 credits.

Under staff supervision.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2015**INFORMATION SYSTEMS (INFO SYS)****INFO SYS 365 – CONTEMPORARY TOPICS**

1-3 credits.

A course for the exploration of subject areas possibly to be introduced into the business curriculum.

**Requisites:** Prerequisites vary by topic**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**INFO SYS/COMP SCI 371 – TECHNOLOGY OF COMPUTER-BASED BUSINESS SYSTEMS**

3 credits.

Overview of computers, their attendant technology, and the implications of this technology for large-scale, computer-based information systems.

Topics include hardware, system software, program development, files and data communications.

**Requisites:** COMP SCI 301**Course Designation:** Breadth - Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**INFO SYS 422 – COMPUTER-BASED DATA MANAGEMENT**

3 credits.

Students learn how to analyze information requirements and data flows, design and build effective database systems, manipulate information in a database environment, and build database-driven applications to support management decision making. Focus on data modeling, relational databases, and database technologies.

**Requisites:** Info Sys 371 or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**INFO SYS 424 – ANALYSIS AND DESIGN OF COMPUTER-BASED SYSTEMS**

3 credits.

Analysis of business systems to identify possible need for new or improved computer-based systems and the design of systems to meet those needs.

**Requisites:** Info Sys 422 or consent of instructor**Repeatable for Credit:** No**Last Taught:** Spring 2017**INFO SYS/I SY E/OTM 671 – E-BUSINESS: TECHNOLOGIES, STRATEGIES AND APPLICATIONS**

3 credits.

Overview of core concepts of e-commerce and e-business technologies, strategies and applications. Covers business-to-consumer, business-to-business and intra-business models by using real-world examples and cases from various industries..

**Requisites:** Senior or Graduate standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**INFO SYS/I SY E 722 – COMPUTER-BASED DATA MANAGEMENT**

3 credits.

Use, control and administration of centralized and distributed data bases. Topics include the definition, design, creation, revision, interrogation, update, security and integrity of data bases.

**Requisites:** Info Sys 371 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**INFO SYS 724 – ANALYSIS AND DESIGN OF COMPUTER-BASED SYSTEMS**

3 credits.

Analysis of business systems to identify possible need for new or improved computer-based systems and the design of systems to meet those needs.

**Requisites:** Info Sys 722 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017

**INFO SYS 765 – CONTEMPORARY TOPICS**

1-3 credits.

Exploration of subject areas possibly to be introduced into the business curriculum.

**Requisites:** Prerequisites vary by topic

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## INTEGRATED ARTS (INTEGART)

**INTEGART 110 – THE STUDIO SEMINAR: MAPPING YOUR CREATIVE PRACTICE**

1 credit.

Residents of The Studio: Creative Arts Design Residential Learning Community engage in an interdisciplinary hands-on approach to the creative arts and gain familiarity with the wide variety of arts disciplines on campus.

**Requisites:** Member of Resident of The Studio: Creative Arts Design Residential Learning Community

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**INTEGART 310 – INTERDISCIPLINARY ARTIST IN RESIDENCE STUDIO**

1-3 credits.

Guest artists will offer interdisciplinary studio courses on topics appropriate to their specializations. See [go.wisc.edu/artsresidency](http://go.wisc.edu/artsresidency) for information on specific residencies.

**Requisites:** None

**Repeatable for Credit:** Yes, unlimited number of completions

**INTEGART 312 – INTERDISCIPLINARY ARTIST IN RESIDENCE LECTURE**

1-3 credits.

Guest artists will offer interdisciplinary studio courses on topics appropriate to their specializations. See [go.wisc.edu/artsresidency](http://go.wisc.edu/artsresidency) for information on specific residencies.

**Requisites:** Prereq varies according to topic

**Repeatable for Credit:** Yes, unlimited number of completions

**INTEGART 320 – INTRODUCTION TO ARTS ENTREPRENEURSHIP**

3 credits.

An overview and foundation for students interested in developing, launching, or advancing innovative projects in arts, culture, design, and humanities. Students cultivate their own career vision and creative project goals while learning about the nature and structures of arts entrepreneurship.

**Requisites:** None

**Repeatable for Credit:** No

**INTEGART 322 – ENTREPRENEURSHIP IN ARTS AND CULTURAL ORGANIZATIONS**

3 credits.

Designed for students ready to develop and bring innovative products and services to market in existing arts and cultural organizations. Lectures, cases, readings, discussion, guests, and experiential projects deepen students' understanding of how to harness entrepreneurial practices to develop compelling new products and services.

**Requisites:** Sophomore standing

**Repeatable for Credit:** No

**INTEGART 330 – SPECIAL TOPICS IN INTEGRATED ARTS**

1-3 credits.

Specialized subject matter in the areas of interdisciplinary or integrated arts. Requisite varies according to topic.

**Requisites:** None

**Repeatable for Credit:** Yes, unlimited number of completions

**INTEGART 610 – INTERDISCIPLINARY ARTIST IN RESIDENCE STUDIO**

1-3 credits.

Guest artists will offer interdisciplinary studio courses on topics appropriate to their specializations. See [go.wisc.edu/artsresidency](http://go.wisc.edu/artsresidency) for information on specific residencies.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**INTEGART 612 – INTERDISCIPLINARY ARTIST IN RESIDENCE LECTURE**

1-3 credits.

Guest artists will offer interdisciplinary lecture courses on topics appropriate to their specializations. See [go.wisc.edu/artsresidency](http://go.wisc.edu/artsresidency) for information on specific residencies.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**INTEGART 630 – SPECIAL TOPICS IN INTEGRATED ARTS**

1-3 credits.

Specialized subject matter in the areas of interdisciplinary or integrated arts.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

## INTEGRATED LIBERAL STUDIES (ILS)

### ILS/ENVIR ST 126 – PRINCIPLES OF ENVIRONMENTAL SCIENCE 4 credits.

This course relates principles of environmental science to our daily activities, with an eye to sustainability, conservation, and systems thinking. It introduces science as a process of inquiry and discovery rather than just a pre-established set of facts. Topics relate to energy, water, and land use, and include food, electric power, materials, buildings, transportation, and waste.

**Requisites:** Open to Freshmen

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### ILS 138 – CRC FIRST-YEAR SEMINAR: FOUNDATIONS OF A LIBERAL ARTS EDUCATION

1 credit.

Students explore stereotypes of, and update their conceptions of a "liberal arts education" and its value in today's world. Students attend various events around campus and within CRC, and discover the recourses of the University while developing community with others.

Open to Fr

**Requisites:** Must be a resident of Chadbourne Residential College.

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### ILS/INTER-AG 150 – WAYS OF KNOWING

1 credit.

Freshmen are exposed to a variety of scholarly topics from outstanding faculty campus-wide as well as small group seminars led by faculty.

Students are encouraged to explore the possibility of a research experience in their degree program.

**Requisites:** Freshman standing only

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

### ILS 153 – WAYS OF KNOWING IN THE SCIENCES

4 credits.

Introduction to science as a process of inquiry and discovery, not as a pre-established set of facts. Emphasizes hands-on learning in both laboratory and lecture environments with small group work and interactive discussion.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### ILS 157 – BRADLEY ROUNDTABLE SEMINAR

1 credit.

The Bradley roundtable seminar addresses various topics of interest to the residents of the Bradley Learning Community. Students must be residents of the Bradley Learning Community

**Requisites:** Open to Fr.

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### ILS 170 – CREATIVITY AND THE CIVIC-MINDED CULTURE

3 credits.

The course is designed to encourage and cultivate a sense of civic responsibility, social awareness and develop action-steps for using the arts and other creative enterprises as tools for social change. Students will explore the social, cultural and political parallels between the performing arts and creative design disciplines using real life case studies and dramatic narratives to better understand the interplay of the creative process and civic engagement. In addition, students are expected to nurture and refine capacities that will enable them to address and better understand the origin of societal concerns regarding race, class and difference. It is hoped that students will also develop a deeper consciousness of self and others and effective participation in a multi-cultural society.

**Requisites:** Must be a resident of the Creative Arts and Design or Chadbourne Learning Community

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

### ILS 198 – DIRECTED STUDY

1-3 credits.

**Requisites:** Graded on a Cr/N basis; requires cons inst and con reg in two ILS courses

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2009



**ILS 199 – DIRECTED STUDY**

1-3 credits.

Open to Fr

**Requisites:** Graded on a lettered basis; requires cons inst con reg in 2 ILS courses.**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**ILS 200 – CRITICAL THINKING AND EXPRESSION**

3 credits.

The three modes of argument and expression: verbal, visual, numerical.

Critical thinking about how these modes are structured and used.

Practice in, and interpretation of, the three modes.

**Requisites:** Satisfied Communications A requirement**Course Designation:** Gen Ed - Communication Part B

Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ILS 201 – WESTERN CULTURE: SCIENCE, TECHNOLOGY, PHILOSOPHY I**

3 credits.

Western science and technology in the making. Major developments viewed in philosophical and social context, from antiquity to 17th century.

Cannot be taken by students who have taken History of Science 201 or 403.

**Requisites:** Open to Fr**Course Designation:** Breadth - Natural Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ILS 202 – WESTERN CULTURE: SCIENCE, TECHNOLOGY, PHILOSOPHY II**

3 credits.

Western science and technology in the making. Major developments viewed in philosophical and social context from the 17th to early twentieth century. Cannot be taken by students who have taken History of Science 202 or 404.

Cannot be taken by students who have taken History of Science 202 or 404.

**Requisites:** Open to Fr**Course Designation:** Breadth - Natural Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ILS 203 – WESTERN CULTURE: LITERATURE AND THE ARTS I**

3 credits.

The development of literature and the arts in the ancient and medieval world: Akhnaton's Egypt, Homer's Troy, Euripides' Athens, Virgil's Rome, Dante's Florence. Literature and art in the context of society and ideas.

**Requisites:** Open to All Undergrads**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ILS 204 – WESTERN CULTURE: LITERATURE AND THE ARTS II**

3-4 credits.

The development of literature and the arts from the Renaissance to the modern period: such figures as Shakespeare and Michelangelo through T.S. Eliot and Picasso. Literature and art in the context of society and ideas. Sections of this course offered for 3 credits do not count for Comm B; only sections offered for 4 credits may carry the Comm B section-level designation. Students are strongly encouraged to complete Comm A before enrolling in a Comm B section.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ILS 205 – WESTERN CULTURE: POLITICAL, ECONOMIC, AND SOCIAL THOUGHT I**

3 credits.

The development of Western political, economic and social thought, from its origins in classic Greece and the Judaeo-Christian tradition, through Rome and the Medieval period, to the Renaissance and Reformation.

**Requisites:** Open to All Undergrads**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ILS 206 – WESTERN CULTURE: POLITICAL, ECONOMIC, AND SOCIAL THOUGHT II**

3 credits.

The development of Western political, economic and social thought from the Reformation to the present day: the origins, logic and evolution of liberalism, Marxism, and organic conservatism as the principal systems of thought of the modern age.

**Requisites:** Open to All Undergrads**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017



**ILS 208 – HISTORY OF WESTERN CULTURE II**

3 credits.

The historical development of Western civilization and culture since the Renaissance. Emphasis on major institutions and the social context of ideas.

**Requisites:** Open to Fr**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2011**ILS 209 – INTRODUCTION TO GLOBAL CULTURES**

3 credits.

Introduction to the comparative study of world cultures from an interdisciplinary perspective. Cultures selected for consideration may vary from year to year. Consideration of such topics as literary and artistic representation, the life cycle, the idea of justice, religious beliefs.

**Requisites:** Open to Fr**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2013**ILS/RELIG ST 234 – GENRES OF WESTERN RELIGIOUS WRITING**

3 credits.

Writing intensive course based on the conventions in which Western writers have expressed religious ideas. Readings from Jewish, Christian, and other spiritualities. Open to Fr

**Requisites:** Successful completion of or exemption from Com A requirement.**Course Designation:** Gen Ed - Communication Part B

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ILS 251 – CONTEMPORARY PHYSICAL SCIENCES**

3 credits.

Twentieth century physical theory and its application in science and technology. Relativity and the quantum theory; modern cosmology and astrophysics; the quantum basis of chemistry and molecular biology; nuclear physics and nuclear power technology; lasers. Philosophical problems connected with these theories are addressed.

**Requisites:** ILS 202 or Hist Sci 201-202 or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2014**ILS 252 – CONTEMPORARY LIFE SCIENCES**

3 credits.

A systems oriented approach to the interrelation of plants and humans in their evolution and cultural development; a historical geographic perspective concluding with a consideration of ecosystems in twentieth century America.

**Requisites:** Open to All Undergrads**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**ILS 253 – LITERATURE AND SOCIETY**

3 credits.

Representative episodes in the interaction of literature and society, organized either around a set of social institutions and their literary connections or around a set of literary forms and their social connections.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ILS 254 – LITERATURE AND SCIENCE**

3 credits.

Examination of the interactions between science, technology, and literature. ILS crse

**Requisites:** Open to Fr.**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ILS 271 – PRE-COPERNICAN ASTRONOMY AND COSMOLOGY IN CROSSCULTURAL PERSPECTIVE**

3 credits.

Astronomy and cosmology, from the cultures of ancient Egypt, Mesopotamia, Greece, India, China and Mesoamerica, through the Arabic and Latin Middle Ages, to Copernicus. Attention to cross-cultural transmission and appropriation of techniques and data; comparisons and contrasts among methods, purposes, and organizing metaphors.

**Requisites:** ILS 201 or 202 or 251 or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2013

**ILS 275 – SPECIAL TOPICS IN INTEGRATED LIBERAL STUDIES**

3 credits.

Interdisciplinary themes and issues from the ILS program. Topics are footnoted in timetable.

**Requisites:** Sophomore standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ILS 298 – DIRECTED STUDY**

1-3 credits.

Graded on a Cr/N basis; requires cons inst

**Requisites:** Jr st.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**ILS 299 – DIRECTED STUDY**

1-3 credits.

Graded on a lettered basis; requires cons inst

**Requisites:** Jr st.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ILS 338 – PEER MONITORING FOR FIRST-YEAR LIBERAL EDUCATION SEMINAR**

2 credits.

A mentoring and supervision class for CRC Peer Mentors who are assisting instructors of the CRC First-Year Seminar which focuses on conceptions and stereotypes of a "liberal arts" education and its value in today's world.

**Requisites:** Cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ILS 357 – PEER MENTOR SEMINAR**

2 credits.

This course is designed to help improve leadership and facilitation skills for the co-facilitators of the Bradley roundtable.

**Requisites:** Students must be sophs former residents of the Bradley Learning Community

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ILS 371 – INTERDISCIPLINARY STUDIES IN THE ARTS AND HUMANITIES**

3 credits.

Selected interdisciplinary topics in literature and art with emphasis on social, historical and political contexts.

**Requisites:** None

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ILS 372 – INTERDISCIPLINARY STUDIES IN THE SOCIAL SCIENCES**

3 credits.

Interdisciplinary analysis of selected topics in the social sciences.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ILS 400 – CAPSTONE INTEGRATION SEMINAR**

3 credits.

Required capstone seminar for juniors and seniors seeking ILS certification.

**Requisites:** Jr or Sr st and seeking ILS certificate

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ILS 401 – GLOBAL CULTURES CAPSTONE SEMINAR**

3 credits.

Seminar to address the integration of intellectual, cultural, and social issues related to global cultures.

**Requisites:** Sr st

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**ILS 490 – RESEARCH IN INTEGRATED LIBERAL STUDIES**

2-3 credits.

This course provides opportunities for students to pursue research in integrated liberal studies.

**Requisites:** At least 2 prev crses in integrated liberal studies.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ILS 681 – UNDERGRADUATE HONORS THESIS**

3 credits.

**Requisites:** Jr or Sr st cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**ILS 682 – UNDERGRADUATE HONORS THESIS**

3 credits.

Continuation of 681.

**Requisites:** Jr or Sr st cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**ILS 691 – UNDERGRADUATE THESIS**

3 credits.

**Requisites:** Jr or Sr st cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2008**ILS 692 – UNDERGRADUATE THESIS**

3 credits.

Continuation of 691.

**Requisites:** Jr or Sr st cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2009**INTEGRATED SCIENCE (INTEGSCI)****INTEGSCI 100 – EXPLORING BIOLOGY**

2 credits.

A first-year course focused on the core concepts in biology (evolution; transformation of energy and matter; information exchange and storage; structure and function; systems biology), professions in biology, and the foundational skills and knowledge needed for successful academic and post-graduate careers in biology.

**Requisites:** First year students only**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**INTEGSCI 140 – EXPLORING SERVICE IN SCIENCE**

1 credit.

Introduces first-year science students to the world of public service from the perspective of both the university and its community partners, using classroom activities and direct experiences. Service opportunities include science outreach, sustainability, and public health. Upon completion of the course, students will be prepared to access the network of service providers in the region to pursue more in-depth volunteer or community-based learning opportunities. Involves approximately 1 hour per week of public service.

**Requisites:** None**Repeatable for Credit:** No**INTEGSCI 150 – EXPLORING RESEARCH IN SCIENCE**

1 credit.

Exploring Research in Science is an opportunity for first-year, second-year and transfer students to gain an understanding of the science research landscape at UW-Madison, to explore ways that scientists from different disciplines approach research, and to build skills in thinking like a scientist. The course will provide guidance on finding a research mentor and will expose students to science careers.

**Requisites:** None**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**INTEGSCI 230 – EXPLORING DISCIPLINE-BASED LEADERSHIP & MENTORING**

2 credits.

Students will build practical peer leadership and mentoring skills, while evaluating and reflecting on personal experiences among a group of peers who challenge and learn from each other as they explore leadership. Class activities are designed to develop critical thinking around student development issues and provide strategies for integrating discussions of diversity, ethics, social justice, community, and civic responsibility into leadership experiences.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**INTEGSCI 260 – ENTERING RESEARCH PART 1**

1 credit.

Seminar course for sophomore or transfer students to begin independent research in science, technology, engineering or mathematics. Taken concurrently with 1-3 research credits with faculty member. Supports independent research experience.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Summer 2017

**INTEGSCI 261 – ENTERING RESEARCH PART 2**

1 credit.

Seminar course for sophomore or transfer students continuing independent research in science, technology, engineering or mathematics. Taken concurrently with 1-3 research credits with faculty member. Supports independent research experience.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Summer 2017**INTEGSCI 299 – INDEPENDENT STUDY**

1-3 credits.

Provides academic credit for research, library, and/or laboratory work under direct guidance of a faculty or instructional academic staff member. Students are responsible for arranging the work and credits with the supervising instructor.

**Requisites:** Consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**INTEGSCI 320 – INTERNSHIP**

1-3 credits.

Provides academic credit for skill development in authentic contexts in science education including service, peer mentoring, and leadership. See class notes for additional information.

**Requisites:** Consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**INTEGSCI 375 – SPECIAL TOPICS IN INTEGRATED SCIENCE**

1-3 credits.

This course examines various special topics in science or science education. See class notes for additional information.

**Requisites:** Requisites vary by topic**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**INTEGSCI 605 – SCIENTIFIC TEACHING FOR TAS**

1 credit.

The goal of this course is to arm Teaching Assistants with survival skills in scientific teaching through theory, practice, and learning community. We will work together to learn the core themes of scientific teaching (active learning, assessment, and diversity) and apply them, in real time, to the courses in which the TAs are concurrently teaching. This course is open to graduate students only.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**INTEGSCI 650 – COLLEGE SCIENCE TEACHING**

1 credit.

Covers the fundamentals of learning theory and practical strategies for teaching science courses, while also developing community around this shared experience. The cohort will work together to learn the core themes of scientific teaching (active learning, assessment, and diversity) in theory so that they can make informed decisions about their teaching in the future. This course is required for Teaching Fellows Program participants.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**INTEGSCI 660 – RESEARCH MENTOR TRAINING PRACTICUM**

1 credit.

Practicum course for graduate, post-doctoral or senior undergraduate students to be taken concurrently while mentoring an undergraduate engaged in an independent research experience.

**Requisites:** None**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**INTEGSCI 675 – SPECIAL TOPICS**

1-3 credits.

This course examines various special topics in science or science education. See Class Notes for additional information.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**INTEGSCI 699 – INDEPENDENT STUDY**

1-3 credits.

Provides academic credit for advanced research, library, and/or laboratory work under direct guidance of a faculty member. Students are responsible for arranging the work and credits with the supervising faculty member.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**INTEGSCI 750 – INSTRUCTIONAL MATERIALS DESIGN FOR COLLEGE SCIENCE TEACHING**

1 credit.

Designed to provide a practical application of pedagogical knowledge through the development of instructional materials for use in a university science education context. The process will be based around cohorts of participants working together to identify learning objectives, and create evidence-based assessments and learning experiences to target those objectives. This course is required for Scientific Teaching Fellows Program participants.

**Requisites:** INTEGSCI 650**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions

**INTEGSCI 850 – MENTORED PRACTICUM IN COLLEGE SCIENCE TEACHING**

1 credit.

Continues the development of graduate student's skills in teaching and learning college science courses by providing a mentored, independent teaching experience. Participants will have the opportunity to see how theories of learning and teaching play out in real instructional settings by implementing instructional activities and then evaluating the outcomes of those activities on the basis of student artifacts. A particular emphasis will be placed on participants creating an inclusive learning environment for teaching diverse student populations. The course also provides participants with frameworks for teaching and managing their own courses, should they pursue academic positions after graduate school. This course is required for Scientific Teaching Fellows Program participants.

**Requisites:** INTEGSCI 750**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No

## INTERDISCIPLINARY COURSES (C A L S) (INTER-AG)

**INTER-AG 2 – INTERNATIONAL INTERNSHIP IN SCIENCES**

1 credit.

For students undertaking internships in international locations; focus on pre-internship preparation and post internship activities; internships prepare students for graduate school or careers in applied science.

**Requisites:** Consent of instructor**Repeatable for Credit:** No**INTER-AG/ILS 150 – WAYS OF KNOWING**

1 credit.

Freshmen are exposed to a variety of scholarly topics from outstanding faculty campus-wide as well as small group seminars led by faculty. Students are encouraged to explore the possibility of a research experience in their degree program.

**Requisites:** Freshman standing only**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2010**INTER-AG/INTER-LS 152 – WAYS OF KNOWING: MEDICINE AND SOCIETY**

1 credit.

Sophomores are exposed to a variety of scholarly topics on subjects dealing with medicine and society by campus-wide faculty. Discussions led by faculty who are primary care practitioners. Students are encouraged to explore the possibility of a research experience in their degree program.

**Requisites:** Open to Sophomores only**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**INTER-AG 155 – ISSUES IN AGRICULTURE, ENVIRONMENT, AND LIFE SCIENCES**

1 credit.

Explore important issues in the application of science that cut across all majors in the College of Agricultural and Life Sciences, and that are critical for society in coming decades; help students develop academic skills and explore majors and careers.

**Requisites:** Open to Fr**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**INTER-AG 165 – INTRODUCTION TO INTERNATIONAL ISSUES IN AGRICULTURAL & LIFE SCIENCES**

1 credit.

Introduction to major international issues in the application of science that will be critical in the next half-century in this national and the world and will help students identify and explore international interests in an academic major and a career.

**Requisites:** Fr or So st, or cons of instr**Repeatable for Credit:** No**Last Taught:** Spring 2017**INTER-AG 175 – WISE SEMINAR**

1 credit.

Weekly seminar/discussion for the Women in Science and Engineering (WISE) learning community. Speakers drawn from all fields of math, science, and engineering on campus. Students meet to learn about research on campus and to discuss the impact of research in their daily lives. Preference given to residents of the WISE learning community.

Open to Fr

**Requisites:** Cons inst.**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, for 2 number of completions**Last Taught:** Fall 2017**INTER-AG/INTER-LS 250 – UNDERGRADUATE RESEARCH EXPERIENCE**

1-3 credits.

Participation in research or creative endeavor led by faculty or instructional staff and in undergraduate Research Scholars Program. This course may also include participation in research discussion groups, critiques of readings, and preparation of written or oral reports.

**Requisites:** Freshman or Sophomore standing, admission to the Undergraduate Research Scholars Program, and consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**INTER-AG 288 – INTRODUCTION TO UNDERGRADUATE RESEARCH**

1 credit.

Student develops a research proposal with guidance by a faculty mentor (applications due in Ag Hall by early April). Student also receives individualized instruction on electronic search of literature by the library staff and critical writing skills by the Writing Center staff. Not open to Fr

**Requisites:** Stdt must be in CALS Honors Prgm be either a So or Jr.

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2004

**INTER-AG 312 – LEADERSHIP SEMINAR**

1 credit.

Develop personal approach to leadership, gain self-awareness, analyze ethical issues, explore organizational and group dynamics, examine skills needed to lead organizations and communities.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**INTER-AG/A A E/AGRONOMY/NUTR SCI 350 – WORLD HUNGER AND MALNUTRITION**

3 credits.

Hunger and poverty in developing countries and the United States. Topics include: nutrition and health, population, food production and availability, and income distribution and employment.

**Requisites:** None

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**INTER-AG 375 – SPECIAL TOPICS**

1-4 credits.

Subjects of current interest to undergraduates.

**Requisites:** Cons inst

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**INTER-AG 388 – CALS HONORS INTERDISCIPLINARY JUNIOR SEMINAR**

1 credit.

Basic elements of experimental design and conduct in biological sciences, social sciences, natural resources, animal sciences and plant sciences are explored in a seminar format. This course is required for all honors students enrolled in the College of Agricultural and Life Sciences.

**Requisites:** Honors or cons inst

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2013

**INTER-AG/NUTR SCI 421 – GLOBAL HEALTH FIELD EXPERIENCE**

1-4 credits.

Undergraduate global health field experiences address a broad range of health topics including nutrition, primary health care, water and sanitation, climate change, sustainable agriculture, and economic development. These field experiences take place in sites around the world including locations in Africa, Asia, Latin America, Europe, and the United States. Engaged learning will include participation in applied public health activities and service learning projects with communities and partner organizations. Students will gain knowledge about health and disease and explore interdisciplinary approaches to health. Field experiences are designed to meet the requirement for the Undergraduate Certificate in Global Health. Students who are not planning to complete the Certificate in Global Health may enroll as space permits.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**INTER-AG 488 – HONORS RESEARCH COLLOQUIUM**

1 credit.

This will be a faculty-led colloquium covering such topics as research ethics, possible societal impact of scientific results, and career choices and their implications. Communication of technical information will also be emphasized.

**Requisites:** Participant in CALS honors prgm or cons inst

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**INTER-AG 875 – SPECIAL TOPICS**

2-3 credits.

Subjects of current interest to graduates.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2012

## INTERDISCIPLINARY COURSES (ENGINEERING) (INTEREGR)

**INTEREGR 101 – CONTEMPORARY ISSUES IN THE ENGINEERING PROFESSION**

2 credits.

A survey of the engineering profession's contemporary role in society. Emphasis on the engineer's responsibility to society, including concerns for business principles, safety, ethics, and the environment; the role of engineers in achieving economic stability, growth, and improving the human condition.

**Requisites:** Open to Fr So only

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2012



**INTEREGR 102 – INTRODUCTION TO SOCIETY'S ENGINEERING GRAND CHALLENGES**

2 credits.

Description and discussion of how engineering disciplines address specific engineering grand challenges in society. Focus on societal and multicultural issues encountered in engineering, as well as economic, ethical and political constraints on engineering solutions. Development of students' professional skills. Open to Fr

**Requisites:** Fr or So st, or cons inst.**Repeatable for Credit:** No**Last Taught:** Spring 2016**INTEREGR 103 – CORE COMPETENCIES FOR ENGINEERING LEADERS**

2 credits.

Leadership is a core aspect of successful engineers, but it is rarely part of a formal curriculum. The course provides a solid foundation of leadership theory and practice to help future engineering professionals to be more effective in their technical work.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2013**INTEREGR 110 – INTRODUCTION TO ENGINEERING**

1 credit.

For first-year students in the College of Engineering. Introduction to engineering disciplines and professional fields; engineering design process; grand challenges; sustainability, societal, multicultural and global issues encountered in engineering; economic and ethical constraints on engineering solutions; and employment and educational opportunities in engineering.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**INTEREGR 111 – INTRODUCTION TO THE ENGINEERING DESIGN PROCESS AND PROFESSION**

2 credits.

Introduction to the engineering design process and profession through applied problem-solving. Emphasis on the engineering design process in industry, teamwork and communication skills; the engineer's responsibilities to customers and society; and the role of engineers in improving the human condition.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2015**INTEREGR 150 – DIRECTED STUDIES IN ENGINEERING FOUNDATION COURSES**

0 credits.

Directed study through College of Engineering Supplementary Instruction program. Group discussion and problem-solving coaching to enhance understanding of physics and its applications to engineering. Open only to students with engineering classification. Open to Fr

**Requisites:** Enrollment in coll of engr.**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**INTEREGR 160 – INTRODUCTION TO ENGINEERING DESIGN**

3 credits.

This course provides the incoming freshman with an overview of engineering based on a "hands-on" experience with a client-centered engineering design project, which includes: 1) a team-based design project, 2) a survey of engineering disciplines, and 3) an introduction to computer tools and lab techniques. Restricted to Fr only

**Requisites:** HS physics or chem with con reg in calculus, or cons inst.**Repeatable for Credit:** No**Last Taught:** Spring 2016**INTEREGR 170 – DESIGN PRACTICUM**

2 credits.

For first-year students in the College of Engineering. Introduction to design via the invention, fabrication and testing of a device that solves a problem proposed by a real world client. Lectures address information retrieval techniques, specification writing, methods for enhancing creativity, analysis techniques, scheduling, selection methodologies, cost estimating, sustainability in design, shop safety, fabrication equipment and techniques, and oral and written communication.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**INTEREGR 200 – CAREER ORIENTATION**

1 credit.

Career planning; consideration of types of work in engineering; interviewing procedures and effective use of placement services; opportunities, division of work, and requirement for engineers in many fields.

**Requisites:** Junior standing**Repeatable for Credit:** No**Last Taught:** Spring 2014**INTEREGR 301 – ENGINEERING AND BIOLOGY: TECHNOLOGICAL SYMBIOSIS**

1-4 credits.

Combining engineering with biology can result in fascinating new technologies. This course explores 3 topics at the very forefront of bio-engineering innovation as well as the social, political, and ethical issues that can affect realization.

**Requisites:** ME 306 or ECE 230 or CBE/B M E 320 or MSE 330 or Civ Engr 320 or EMA 303 or BSE 249**Repeatable for Credit:** No**Last Taught:** Fall 2014**INTEREGR 400 – DEAN'S LEADERSHIP CLASS**

1 credit.

The focus of this course is to help leaders of student organizations learn about and practice essential leadership skills, and develop constructive viewpoints on leadership.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2010

**INTEREGR 413 – CURRENT ISSUES IN INTERNATIONAL ENGINEERING**

1 credit.

Provides a comparative examination and analysis of global trends and regional variations for engineering concepts, standards and practices. Using organizational case studies, the course will describe and analyze multi-national engineering operations and summarize best practices and caveats.

**Requisites:** Admission to Intl Engr Cert Progm or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**INTEREGR 601 – TOPICS IN INTERDISCIPLINARY ENGINEERING**

1-3 credits.

Interdisciplinary topics of special interest to undergrad and grad students in engineering.

**Requisites:** None**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**INTEREGR/MEDICINE 650 – WOMEN AND LEADERSHIP IN MEDICINE, SCIENCE AND ENGINEERING**

1-3 credits.

Review and discussion of research on effective leadership; gender differences in leadership; unconscious assumptions about behaviors and traits of leaders; and approaches to counteracting biases. Required assignments vary with credits from reflective journal to literature review to research project.

**Requisites:** Graduate students, Professional students: Upper-level undergrads with consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017

## INTERDISCIPLINARY COURSES (L & S) (INTER-LS)

**INTER-LS 101 – FIRST-YEAR SEMINAR IN THE BIOLOGICAL SCIENCES**

3 credits.

Interdisciplinary course for first-year students. Topic will vary with instructor and will be announced in the Timetable. Enrollment limited.

**Requisites:** Open to Fr**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**INTER-LS 102 – FIRST-YEAR SEMINAR IN THE HUMANITIES**

3 credits.

Interdisciplinary course for first-year students. Topic will vary with instructor and will be announced in the Timetable. Enrollment limited.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**INTER-LS 103 – FIRST-YEAR SEMINAR IN LITERATURE**

3 credits.

Interdisciplinary course for first-year students. Topic will vary with instructor and will be announced in the Timetable. Enrollment limited.

**Requisites:** Open to Fr**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**INTER-LS 104 – FIRST-YEAR SEMINAR IN THE NATURAL SCIENCES**

3 credits.

Interdisciplinary course for first-year students. Topic will vary with instructor and will be announced in the Timetable. Enrollment limited.

**Requisites:** Open to Fr**Course Designation:** Breadth - Natural Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2008**INTER-LS 106 – FIRST-YEAR SEMINAR IN THE SOCIAL SCIENCES**

3 credits.

Interdisciplinary course for first-year students. Topic will vary with instructor and will be announced in the Timetable. Enrollment limited.

**Requisites:** Open to Fr**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**INTER-LS 107 – FIRST-YEAR SEMINAR IN THE SOCIAL SCIENCES AND NATURAL SCIENCES**

3 credits.

Interdisciplinary course for first-year students. Topic will vary with instructor and will be announced in the Timetable. Enrollment limited.

**Requisites:** Open to Fr**Course Designation:** Breadth - Either Social Science or Natural Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017

**INTER-LS 110 – FIRST-YEAR SEMINAR IN THE HUMANITIES AND SOCIAL SCIENCES**

3 credits.

Interdisciplinary course for first-year students. Topic will vary with instructor and will be announced in the Timetable. Enrollment limited.

**Requisites:** Open to Fr**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012**INTER-LS 118 – FIRST-YEAR SEMINAR IN THE SOCIAL SCIENCES, ETHNIC STUDIES**

3 credits.

Interdisciplinary course for first-year students. Topic will vary with instructor and will be announced in the Timetable. Enrollment limited.

**Requisites:** Open to Fr**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012**INTER-LS 121 – APPROACHES TO CRITICAL THINKING AND WRITING**

3 credits.

**Requisites:** Open to Fr in Summer Collegiate Experience (SCE) only**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**INTER-LS/INTER-AG 152 – WAYS OF KNOWING: MEDICINE AND SOCIETY**

1 credit.

Sophomores are exposed to a variety of scholarly topics on subjects dealing with medicine and society by campus-wide faculty. Discussions led by faculty who are primary care practitioners. Students are encouraged to explore the possibility of a research experience in their degree program.

**Requisites:** Open to Sophomores only**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**INTER-LS 180 – FIRST-YEAR HONORS INTERDISCIPLINARY SEMINAR: DIVERSITY DIALOGUES**

1 credit.

This course is a first-year honors topics seminar designed to engage students in interdisciplinary learning and build an honors student community, examining one topic through the three breadth areas of study: natural science, social science, and humanities. Open to Fr

**Requisites:** 1st-yr stdts accepted into the LS honors prog.**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2010**INTER-LS 185 – HONORS INTERDISCIPLINARY READING COURSE**

2-3 credits.

This preparation course provides the necessary intensive reading as a companion course to participation in specific study-abroad LS honors programs. Students who complete both courses will be awarded six honors credits. Open to Fr

**Requisites:** Enrollment in the LS Honors Prog.; consent of an honors prog advisor.**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2011**INTER-LS 210 – L&S CAREER DEVELOPMENT: TAKING INITIATIVE**

1 credit.

Interdisciplinary course in career development that connects the liberal arts and sciences degree to academic and career preparation, practical job skills, goal-setting, critical thinking and reflection. Designed for second year students, but open to all students.

**Requisites:** None**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**INTER-LS 220 – WINDOWS ON THE WORLD**

3 credits.

Offered only in the summer session, "Windows on the World" provides an interdisciplinary introduction to the culture, history, politics and economics, arts and social issues of the world area which is its focus. Cons inst

**Requisites:** Open to all Undergrads.**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2009

**INTER-LS/INTER-AG 250 – UNDERGRADUATE RESEARCH EXPERIENCE**  
1-3 credits.

Participation in research or creative endeavor led by faculty or instructional staff and in undergraduate Research Scholars Program. This course may also include participation in research discussion groups, critiques of readings, and preparation of written or oral reports.

**Requisites:** Freshman or Sophomore standing, admission to the Undergraduate Research Scholars Program, and consent of instructor

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**INTER-LS 260 – INTERNSHIP IN THE LIBERAL ARTS AND SCIENCES**  
1 credit.

Enables students with outside internships to earn academic credit connected to their work experience, regardless of their major. Using online tools, students collaboratively analyze and discuss their internships with respect to the goals of a liberal arts and sciences education.

**Requisites:** None

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, for 3 number of completions

**Last Taught:** Fall 2017

**INTER-LS 315 – PARADIGMS AND PROCESS IN ACADEMIC INQUIRY**  
2 credits.

Designed specifically for the research fellow, this course offers a structure for thinking about research that avoids reducing research to a single mode of thought and practice, and is thus inclusive of the range of approaches to research reflected in Inter-LS 250. Will address specific topics that relate to the day-to-day activities of doing research, and addresses issues of what does it mean to think like a researcher, to act like a researcher, to talk like a researcher?

**Requisites:** Must have applied for been accepted as a research fellow in the Undergraduate Research Scholars Progm

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**INTER-LS 700 – PUBLIC HUMANITIES: THEORIES, METHODS, CASES**  
3 credits.

The aim of this course is to introduce graduate students to a range of methods, theories, and cases that represent the emerging field of the public humanities and to prepare graduate students to explore the range of opportunities that exist for them outside of academia. Students in the seminar will be expected to read, practice, and experiment. The course will focus on the limits, audiences, and outcomes of research in the humanities, including the possibility of translational research. The final project will involve the design and in some cases implementation of a project based upon your scholarly research. Students will undertake out-of-classroom projects and exercises in addition to reading.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**INTER-LS 701 – TOPICS: GRADUATE STUDENTS INTERESTED IN TEACHING**

1-3 credits.

Exposes graduate students to current pedagogical topics in interdisciplinary or broad disciplinary areas. Assists those who aspire to college teaching careers acquire skills they will use in their own classrooms, as well as in any teaching assignments on this campus.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2011

## INTERDISCIPLINARY COURSES (SOHE) (INTER-HE)

### INTER-HE 201 – BELONGING, PURPOSE AND THE ECOLOGY OF HUMAN HAPPINESS: ECOYOU

3 credits.

This course explores the art and science of purposeful living by integrating academic knowledge with issues real and relevant to students' lives including: identity and belonging; happiness, purpose and meaning; self-awareness and self-presentation; romantic, peer and family relationships; material culture, consumer behavior and financial well-being; and connections to community, culture, and society. From the microbes that inhabit our guts to political revolutions sparked by a tweet, human lives are embedded in an ecology of complex, interdependent systems. Using the lens of Human Ecology, you will address "big questions" like: How am I connected to others and to larger systems? What brings happiness and works for the "greater good" in human lives? An overarching goal of the course is to help you understand yourself as embedded in the web of ever-evolving interconnected networks, an "EcoYou." Human Ecology is a systems approach to studying and understanding relationships between humans and their everyday environments; it is a civic and socially conscious orientation that is committed to understanding and improving the quality of human lives. Human Ecology is inherently interdisciplinary drawing on research, theories and methods from diverse fields such as sociology, psychology, anthropology, economics, public health, biology, and art and design.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### INTER-HE 202 – SOHE CAREER & LEADERSHIP DEVELOPMENT

1 credit.

Provides an introduction to leadership development, career development and career readiness competencies for students in the School of Human Ecology.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### INTER-HE 301 – SPECIAL TOPICS IN HUMAN ECOLOGY

1-3 credits.

Special Topics in Human Ecology for undergraduate students. Subject matter varies.

**Requisites:** None

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### INTER-HE/HDFS 650 – PARENT EDUCATION AND SUPPORT PROGRAMS

3 credits.

The purposes, contexts, and implementation of parenting support and education programs are studied. Some sections may include a service learning component.

**Requisites:** HDFS 362, ED PSYCH 320, or PSYCH 460 (or PSYCH 560 prior to Fall 2017)

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### INTER-HE/ELPA 660 – FOUNDATIONS OF EDUCATION FOR WORK

2-3 credits.

Analysis of perspectives and issues associated with the development of work-focused education policies and practice.

**Requisites:** Senior standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

### INTER-HE/ELPA 661 – ORGANIZATION AND OPERATION OF EDUCATION FOR WORK PROGRAMS

3 credits.

Procedures, policies and research associated with various systems of work-related education. This course is intended for students who have teaching experience.

**Requisites:** Senior standing

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

### INTER-HE/ELPA 730 – PROGRAM DEVELOPMENT IN CONTINUING EDUCATION

3 credits.

Basic concepts related to effective program development. Focus on the concepts relevant to programming with adults: (1) philosophical basis for change through adult education programs, (2) programming processes, (3) community and clientele analysis, (4) program involvement, (5) program design.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

### INTER-HE/ELPA 742 – FACILITATING LEARNING FOR ADULTS

3 credits.

Analysis of concepts and procedures for helping adults learn. Emphasis on the teaching-learning transactions that encourage and assist adults in their learning activities.

**Requisites:** CURRIC/ELPA/CURRIC 746

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**INTER-HE/ELPA 770 – SCHOOL-COMMUNITY ENGAGEMENT**

3 credits.

Critical examination of school-community engagement and collaboration. Examines theory and practice of mutually beneficial collaboration in diverse education settings, including leadership issues in collaborative settings, and facilitators and inhibitors to effective collaboration.

**Requisites:** ELPA 702**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**INTER-HE 793 – RESEARCH METHODS**

3 credits.

Basic techniques: questionnaires, interviews, behavioral observation, sampling, experimental designs and data analysis using computer. Students learn to write a research proposal with literature review.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**INTER-HE 801 – SPECIAL TOPICS IN HUMAN ECOLOGY**

1-3 credits.

Special Topics in Human Ecology at the Master's and Doctoral levels. Subject matter varies.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**INTER-HE 810 – SEMINAR FAMILY ECOLOGY**

3 credits.

This seminar is focused on professional development and practice skills grounded in a human ecology perspective, which is typically seen as the engaged application of arts and sciences to issues affecting life quality.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**INTER-HE/ELPA 812 – LEADERSHIP AND COORDINATION OF CONTINUING AND TECHNICAL EDUCATION**

3 credits.

Theory, research, concepts, and processes of leadership and program coordination integral to various continuing and technical education programs.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2009**INTER-HE/ELPA 826 – EVALUATION FOR ADMINISTRATIVE DECISION MAKING IN EDUCATION**

3 credits.

Theory and methods of evaluation for administrators. Models and techniques related to educational needs assessment, program and product development, formative and summative evaluation. Use of evaluative information for administrative decision making and administration of educational evaluation projects.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2012

## INTERNATIONAL ACADEMIC PROGRAMS – STUDY ABROAD (STDYABRD)

**STDYABRD 100 – TOPICS IN BIOLOGICAL SCIENCE**

1-6 credits.

Biological science course taken on UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**STDYABRD 106 – TOPICS IN HUMANITIES**

1-6 credits.

Humanities course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**STDYABRD 116 – TOPICS IN LITERATURE**

1-6 credits.

Literature course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions



**STDYABRD 125 – TOPICS IN NATURAL SCIENCE**

1-6 credits.

Natural science course taken on UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Natural Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2007

**STDYABRD 130 – TOPICS IN PHYSICAL SCIENCE**

1-6 credits.

Physical science course taken on UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2011

**STDYABRD 136 – TOPICS IN SOCIAL SCIENCE**

1-6 credits.

Social science course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2010

**STDYABRD 145 – TOPICS IN SOCIAL AND NATURAL SCIENCE**

1-6 credits.

Social/natural science course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Either Social Science or Natural Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2005

**STDYABRD 150 – TOPICS IN HUMANITIES AND NATURAL SCIENCE**

1-6 credits.

Humanities/natural science course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Either Humanities or Natural Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**STDYABRD 155 – TOPICS IN BIOLOGICAL AND SOCIAL SCIENCE**

1-6 credits.

Biological/social science course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Either Biological Science or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2008

**STDYABRD 161 – TOPICS IN HUMANITIES AND SOCIAL SCIENCE**

1-6 credits.

Humanities/social science course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2009

**STDYABRD 170 – INTERDIVISIONAL TOPICS**

1-6 credits.

Course taken on a UW-Madison resident study abroad program for which there is no departmental or breadth equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**STDYABRD 176 – INTERDIVISIONAL TOPICS**

1-6 credits.

Course taken on a UW-Madison resident study abroad program for which there is no departmental or breadth equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2010

**STDYABRD 190 – FIRST SEMESTER FOREIGN LANGUAGE**

3-6 credits.

Foreign language course taken on a Madison resident study abroad program in a language not taught at UW-Madison.

**Requisites:** Enrollment in a UW-Madison resident study abroad program and prior approval by IAP in consultation with a related foreign language department

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**STDYABRD 195 – SECOND SEMESTER FOREIGN LANGUAGE**

3-6 credits.

Foreign language course taken on a Madison resident study abroad program in a language not taught at UW-Madison.

**Requisites:** Enrollment in a UW-Madison resident study abroad program and prior approval by IAP in consultation with a related foreign language department

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**STDYABRD 290 – THIRD SEMESTER FOREIGN LANGUAGE**

3-6 credits.

Foreign language course taken on a Madison resident study abroad program in a language not taught at UW-Madison.

**Requisites:** Enrollment in a UW-Madison resident study abroad program and prior approval by IAP in consultation with a related foreign language department

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**STDYABRD 295 – FOURTH SEMESTER FOREIGN LANGUAGE**

3-6 credits.

Foreign language course taken on a Madison resident study abroad program in a language not taught at UW-Madison.

**Requisites:** Enrollment in a UW-Madison resident study abroad program and prior approval by IAP in consultation with a related foreign language department

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

**STDYABRD 300 – TOPICS IN BIOLOGICAL SCIENCE**

1-6 credits.

Biological science course taken on UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**STDYABRD 306 – TOPICS IN HUMANITIES**

1-6 credits.

Humanities course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**STDYABRD 316 – TOPICS IN LITERATURE**

1-6 credits.

Literature course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2010

**STDYABRD 325 – TOPICS IN NATURAL SCIENCE**

1-6 credits.

Natural science course taken on UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2011

**STDYABRD 330 – TOPICS IN PHYSICAL SCIENCE**

1-6 credits.

Physical science course taken on UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2011

**STDYABRD 336 – TOPICS IN SOCIAL SCIENCE**

1-6 credits.

Social science course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**STDYABRD 345 – TOPICS IN SOCIAL AND NATURAL SCIENCE**

1-6 credits.

Social/natural science course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Either Social Science or Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2008

**STDYABRD 350 – TOPICS IN HUMANITIES AND NATURAL SCIENCE**

1-6 credits.

Humanities/natural science course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Either Humanities or Natural Science Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**STDYABRD 355 – TOPICS IN BIOLOGICAL AND SOCIAL SCIENCE**

1-6 credits.

Biological/social science course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Either Biological Science or Social Science Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2010

**STDYABRD 361 – TOPICS IN HUMANITIES AND SOCIAL SCIENCE**

1-6 credits.

Humanities/social science course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**STDYABRD 370 – INTERDIVISIONAL TOPICS**

1-6 credits.

Course taken on a UW-Madison resident study abroad program for which there is no departmental or breadth equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**STDYABRD 376 – INTERDIVISIONAL TOPICS**

1-6 credits.

Course taken on a UW-Madison resident study abroad program for which there is no departmental or breadth equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2009

**STDYABRD 380 – TOPICS IN BIOLOGICAL SCIENCE**

1-6 credits.

Biological science course taken on UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program permission of the LS Honors Program

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**STDYABRD 381 – TOPICS IN HUMANITIES**

1-6 credits.

Humanities course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program permission of the LS Honors Program

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2004

**STDYABRD 382 – TOPICS IN LITERATURE**

1-6 credits.

Literature course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program permission of the LS Honors Program

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**STDYABRD 383 – TOPICS IN NATURAL SCIENCE**

1-6 credits.

Natural science course taken on UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program permission of the LS Honors Program

**Course Designation:** Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**STDYABRD 384 – TOPICS IN PHYSICAL SCIENCE**

1-6 credits.

Physical science course taken on UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program permission of the LS Honors Program

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**STDYABRD 385 – TOPICS IN SOCIAL SCIENCE**

1-6 credits.

Social science course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program permission of the LS Honors Program

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**STDYABRD 386 – TOPICS IN SOCIAL AND NATURAL SCIENCE**

1-6 credits.

Social/natural science course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program permission of the LS Honors Program

**Course Designation:** Breadth - Either Social Science or Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**STDYABRD 387 – TOPICS IN HUMANITIES AND NATURAL SCIENCE**

1-6 credits.

Humanities/natural science course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program permission of the LS Honors Program

**Course Designation:** Breadth - Either Humanities or Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**STDYABRD 388 – TOPICS IN BIOLOGICAL AND SOCIAL SCIENCE**

1-6 credits.

Biological/social science course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program permission of the LS Honors Program

**Course Designation:** Breadth - Either Biological Science or Social Science Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**STDYABRD 389 – TOPICS IN HUMANITIES AND SOCIAL SCIENCE**

1-6 credits.

Humanities/social science course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program permission of the LS Honors Program

**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2005

**STDYABRD 390 – FIFTH SEMESTER FOREIGN LANGUAGE**

3-6 credits.

Foreign language course taken on a Madison resident study abroad program in a language not taught at UW-Madison.

**Requisites:** Enrollment in a UW-Madison resident study abroad program and prior approval by IAP in consultation with a related foreign language department

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**STDYABRD 393 – SIXTH SEMESTER FOREIGN LANGUAGE**

3-6 credits.

Foreign language course taken on a Madison resident study abroad program in a language not taught at UW-Madison.

**Requisites:** Enrollment in a UW-Madison resident study abroad program and prior approval by IAP in consultation with a related foreign language department

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**STDYABRD 500 – TOPICS IN BIOLOGICAL SCIENCE**

1-6 credits.

Biological science course taken on UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2009

**STDYABRD 506 – TOPICS IN HUMANITIES**

1-6 credits.

Humanities course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2009

**STDYABRD 516 – TOPICS IN LITERATURE**

1-6 credits.

Literature course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**STDYABRD 525 – TOPICS IN NATURAL SCIENCE**

1-6 credits.

Natural science course taken on UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**STDYABRD 530 – TOPICS IN PHYSICAL SCIENCE**

1-6 credits.

Physical science course taken on UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**STDYABRD 536 – TOPICS IN SOCIAL SCIENCE**

1-6 credits.

Social science course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2010

**STDYABRD 545 – TOPICS IN SOCIAL AND NATURAL SCIENCE**

1-6 credits.

Social/natural science course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Either Social Science or Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**STDYABRD 550 – TOPICS IN HUMANITIES AND NATURAL SCIENCE**

1-6 credits.

Humanities/natural science course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Either Humanities or Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**STDYABRD 555 – TOPICS IN BIOLOGICAL AND SOCIAL SCIENCE**

1-6 credits.

Biological/social science course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Either Biological Science or Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**STDYABRD 561 – TOPICS IN HUMANITIES AND SOCIAL SCIENCE**

1-6 credits.

Humanities/social science course taken on a UW-Madison resident study abroad program for which there is no departmental equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions



**STDYABRD 570 – INTERDIVISIONAL TOPICS**

1-6 credits.

Course taken on a UW-Madison resident study abroad program for which there is no departmental or breadth equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**STDYABRD 576 – INTERDIVISIONAL TOPICS**

1-6 credits.

Course taken on a UW-Madison resident study abroad program for which there is no departmental or breadth equivalent.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Repeatable for Credit:** Yes, unlimited number of completions

## INTERNATIONAL BUSINESS (INTL BUS)

**INTL BUS 200 – INTERNATIONAL BUSINESS**

3 credits.

A survey of the interrelationships of world business operations; an introduction to current conceptual perspectives; cultural, educational, political and economic constraints, the international financial and trade frameworks, and the problems and challenges facing the multinational corporation.

**Requisites:** ECON 101 or 102

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**INTL BUS/FRENCH 313 – PROFESSIONAL COMMUNICATION AND CULTURE IN THE FRANCOPHONE WORLD**

3 credits.

Study and analysis of the culture and sociology of professional environments in the French and Francophone worlds, including government, international organizations, NGO's and business. Students develop communication skills through interactive teaching methods in multimedia labs.

**Requisites:** FRENCH 228 or 311 or consent of instructor

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**INTL BUS/FRENCH 314 – CONTEMPORARY ISSUES IN GOVERNMENT, ORGANIZATIONS, AND ENTERPRISE**

3 credits.

Cultural study of contemporary Francophone Africa, focusing on issues in government, organizations and enterprise. Exploration of cultural and professional relations between Francophone Africa and France, the European Union, and the United States.

**Requisites:** FRENCH 228 or 311 or 313 or cons inst

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**INTL BUS/FRENCH 315 – ADVANCED INTERDISCIPLINARY STUDIES IN PROFESSIONAL COMMUNICATION**

3 credits.

In-depth study, from interdisciplinary perspectives, of key aspects of technical French language for the professions and business, together with an exploration of the history, sociology, and culture of professional environments in the French and Francophone worlds.

**Requisites:** FRENCH 228, 313 or 314 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2012

**INTL BUS/GEN BUS 320 – INTERCULTURAL COMMUNICATION IN BUSINESS**

3 credits.

Develops awareness and knowledge of cultural influences on business. Focuses on various attitudes toward work, time, material possession, business, and the relationship of these attitudes to different social, religious, philosophical, and educational backgrounds of business people from cultures around the world.

**Requisites:** So st

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**INTL BUS/SPANISH 329 – SPANISH FOR BUSINESS**

3 credits.

Spanish lexicon and linguistic style for management, banking, accounting, capital investment, personnel and office systems, production of goods and services, marketing, finance, and import/export; includes translation and interpretive activities.

**Requisites:** SPANISH 311

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**INTL BUS 365 – CONTEMPORARY TOPICS**

1-3 credits.

A course for the exploration of subject areas possibly to be introduced into the business curriculum.

**Requisites:** Prerequisite varies by topic

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**INTL BUS 399 – READING AND RESEARCH-INTERNATIONAL BUSINESS**

1-6 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2012



**INTL BUS/M H R 403 – GLOBAL ISSUES IN MANAGEMENT**

3 credits.

This course focuses on the strategic management required in global business. Topics include environmental analysis, global strategy, and subsidiary control. The aim of the course is to develop special skills that are required to manage international firms. Not open to grad stdts

**Requisites:** Jr st or Sr st.**Repeatable for Credit:** No**Last Taught:** Fall 2017**INTL BUS/MARKETNG 420 – GLOBAL MARKETING STRATEGY**

3 credits.

Structure of foreign trading; commercial facilities available to exporters and importers; application of economic analysis in marketing decisions; contemporary trends in international economy affecting foreign trade policies and practices.

**Requisites:** Sophomore, Junior or Senior standing; Marketing 300**Repeatable for Credit:** No**Last Taught:** Fall 2017**INTL BUS/REAL EST 430 – INTERNATIONAL REAL ESTATE**

3 credits.

Analysis of international real estate and related transaction issues, especially in foreign countries which are visited as part of the course; survey of land use patterns and regulations, ownership rights, types of leases, transfer procedures, mortgage system, tax matters, currency risks, and geographical diversification issues.

**Requisites:** Real Est 306 or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2015**INTL BUS/FINANCE 445 – MULTINATIONAL BUSINESS FINANCE**

3 credits.

Application of financial theory to the operations of multinational firms; survey of the international financial environment; determinants of international portfolio and direct investment capital flows; management of foreign exchange position and hedging strategies; evaluation of foreign investment projects (multinational capital budgeting); international financial structure decisions; multinational credit institutions and capital markets; taxation of international business.

**Requisites:** Finance/ECON/FINANCE 300, MATH 213 or 222, Gen Bus 303 or equiv**Repeatable for Credit:** No**Last Taught:** Fall 2017**INTL BUS/A A E/ECON 462 – LATIN AMERICAN ECONOMIC DEVELOPMENT**

3 credits.

A historico-institutional analysis of development problems in the principal Latin American countries, with attention to differentiation of national growth patterns and alternative development strategies.

**Requisites:** ECON 102 or 111 and Jr st**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**INTL BUS/REAL EST 730 – INTERNATIONAL REAL ESTATE**

3 credits.

Analysis of international real estate and related transaction issues, especially in foreign countries which are visited as a part of the course; survey of land use patterns and regulations, ownership rights, types of leases, transfer procedures, mortgage system, tax matters, currency risks, and geographical diversification issues.

**Requisites:** Grad st or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2010**INTL BUS/FINANCE 745 – MULTINATIONAL BUSINESS FINANCE**

3 credits.

Theory of business finance as applied to the operations of multinational firms; financial analysis and control of foreign investment decisions; working capital management; multinational credit institutions and capital markets; special accounting problems and trends in international monetary affairs.

**Requisites:** FINANCE 700 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**INTL BUS/OTM 755 – INTERNATIONAL OPERATIONS: PROBLEMS AND ADMINISTRATION**

3 credits.

Organizations and strategies of international and multinational firms. Initiating international operations, joint venture problems, relationships with state enterprises, licensing methods, defenses against adverse government policies (including confiscation), and international business policies and tactics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2009**INTL BUS 765 – CONTEMPORARY TOPICS**

1-4 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**INTL BUS 799 – READING AND RESEARCH-INTERNATIONAL BUSINESS**

1-6 credits.

Individual work suited to the needs of graduate students may be arranged both during regular sessions and the intersession periods.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2011

## INTERNATIONAL STUDIES (INTL ST)

### INTL ST 101 – INTRODUCTION TO INTERNATIONAL STUDIES

3-4 credits.

Familiarizes students with the field of international studies, and performs an interdisciplinary examination of the cultural, political, economic, and social patterns that have defined the modern world.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### INTL ST/ANTHRO/FOLKLORE/LINGUIS 211 – GLOBAL LANGUAGE ISSUES

4 credits.

A series of modules, each showcasing one language and its culture. Each module tackles a major issue about language, such as extinction and revival, language and nationhood, how widely and deeply languages differ, language and worldview, writing systems and literacy, language discrimination and inequality.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

### INTL ST 212 – WISCONSIN INTERNATIONAL SCHOLARS PROGRAM SEMINAR

1 credit.

Discussion of international events and topics designed specifically for WIScholars Program participants, geared toward fostering leadership skills.

**Requisites:** None

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### INTL ST 310 – INTERNATIONAL LEARNING COMMUNITY SEMINAR

1-3 credits.

A 1-3 credit class graded on a Credit / No Credit basis which addresses various international, cross-cultural and language topics of interest to the residents of the International Learning Community. Students must be residents of the International Learning Community

**Requisites:** Open to Fr.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### INTL ST 320 – CONTEMPORARY ISSUES IN INTERNATIONAL STUDIES

1-4 credits.

Topics vary. Course may be repeated but not with same content.

**Requisites:** Sophomore standing or consent of instructor

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### INTL ST 322 – WASHINGTON DC SEMESTER IN INTERNATIONAL AFFAIRS INTERNSHIP SEMINAR

4 credits.

Washington DC internship in international affairs. Open to program participants only.

**Requisites:** Must be a participant in the Washington DC semester in international affairs program

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

### INTL ST/POLI SCI 325 – SOCIAL MOVEMENTS AND REVOLUTIONS IN LATIN AMERICA

3-4 credits.

An introduction to the major empirical and theoretical themes in the study of social movements and politics in Latin America. While it is impossible to cover every theoretical approach or Latin American case during the semester, the course should give students the tools to begin to think critically about where and why people engage in collective action. We will develop and hone these tools through thinking about Latin American cases, paying specific attention to revolutions, social movements, and riots. The course is designed in three parts. It begins by exposing students to the dominant theoretical paradigms in the study of contentious politics as well as some prominent critiques. The course then turns to empirical themes in Latin American revolutions, challenging students to use and question the theoretical tools to which they have already been exposed. The final part of the course looks to social movements in Latin America. Cases will focus on challenges to dictatorships, identity-based movements, and resistance to globalization.

**Requisites:** Sophomore standing and (POLI SCI 120, 140 or INTL ST 101) or (POLI SCI 103 or 106 taken prior to Fall 2017)

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**INTL ST/POLI SCI 327 – INDIAN POLITICS IN COMPARATIVE PERSPECTIVE**

3 credits.

This course explores the socio-economic and political outcomes across India. This course will employ the major theories of comparative politics that explain political outcomes such as regime type, economic development and conflict. This course explores why some countries are democracies, while others are dictatorships; why some countries are poor, while others are rich; and why some countries experience high levels of violence, while others are peaceful. The course considers how India comports with standard theories in comparative politics and how standard theories might be revised in light of the Indian case. The course maps variation on the sub-national and regional level. The course will ultimately consider reforms proposed by the Indian state to further democratic and economic development and to reduce conflict. Students will learn about India's politics in a structured manner, and will gain an appreciation of the power and limitations of the political science method.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**INTL ST/ED POL 335 – GLOBALIZATION AND EDUCATION**

3 credits.

Introduces students to the origins, development, and debates in the field of globalization and education (GE); explores educational experiences in settings around the world; and examines how GE studies and approaches can inform learning, teaching, and research practices.

**Requisites:** Open to Fr**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**INTL ST/A A E 373 – GLOBALIZATION, POVERTY AND DEVELOPMENT**

3 credits.

Addresses the process of globalization – trade, international capital flows, labor migration and remittances, and aid – from the perspective of developing economies and the development process.

**Requisites:** AAE 215, ECON 101 or equivalent, or consent of instructor**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**INTL ST/A A E 374 – THE GROWTH AND DEVELOPMENT OF NATIONS IN THE GLOBAL ECONOMY**

3 credits.

This course explores the roles of markets, states, and civil institutions, using economic theory, computer simulations, and historical experience to better understand the forces that shape the wealth and well-being of nations and people around the world.

**Requisites:** ECON 101, or ECON 102, or AAE 215, or equiv**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**INTL ST 401 – TOPICS IN GLOBAL SECURITY**

3-4 credits.

Contemporary issues in international studies in global security. Topics vary. Course may be repeated but not with the same content.

**Requisites:** Sophomore standing or consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**INTL ST 402 – TOPICS IN POLITICS AND POLICY IN THE GLOBAL ECONOMY**

3-4 credits.

Contemporary issues in international studies in politics and policy. Topics vary. Course may be repeated but not with the same content.

**Requisites:** Sophomore standing or consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**INTL ST 403 – TOPICS IN CULTURE IN THE AGE OF GLOBALIZATION**

3-4 credits.

Contemporary issues in international studies in global culture. Topics vary. Course may be repeated but not with the same content.

**Requisites:** Sophomore standing or consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**INTL ST 404 – TOPICS IN GLOBAL ENVIRONMENT**

3-4 credits.

Contemporary issues in international studies in global environment. Topics vary. Course may be repeated but with same content.

**Requisites:** Sophomore standing or consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No

**INTL ST/POLI SCI 423 – SOCIAL MOBILIZATION IN LATIN AMERICA**  
3 credits.

This course serves as an introduction to the major empirical and theoretical themes in the study of mobilization in Latin America.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**INTL ST/POLI SCI 431 – CONTENTIOUS POLITICS**  
3-4 credits.

Social movements, revolutions, and riots continually shape and re-shape the world around us. The course will evaluate and apply dominant theoretical approaches to understanding contention through careful attention to empirical cases throughout the world.

**Requisites:** Sophomore standing and POLI SCI 140 or INTL ST 101 (or POLI SCI 103 taken prior to fall 2017) or graduate or professional standing

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**INTL ST/POLI SCI 434 – THE POLITICS OF HUMAN RIGHTS**  
3-4 credits.

Examines the origins and development of human rights in international politics. The course discusses what human rights are, international human rights movements, the international search for justice after mass crimes, and international humanitarian intervention. Not open to students with credit for POLI SCI 317 prior to fall 2017

**Requisites:** Sophomore standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**INTL ST/POLI SCI 436 – POLITICAL INEQUALITY: MEASURES, CAUSES, EFFECTS AND REMEDIES**  
3 credits.

In this course, we will review what political inequality is, and examine how scholars have measured it, and studied its causes, effects and remedies. The course will focus on inequalities in political participation and representation.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**INTL ST/POLI SCI 439 – THE COMPARATIVE STUDY OF GENOCIDE**  
3-4 credits.

Examines the phenomenon of genocide in the modern world. The class covers the concept of genocide, theories of why genocide occurs, and particular cases in the 20th and 21st centuries. Not open to students with credit for POLI SCI 318 prior to fall 2017

**Requisites:** Sophomore standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**INTL ST 501 – STUDY ABROAD TOPICS IN GLOBAL SECURITY**  
1-6 credits.

Course reserved as a course equivalency for topics courses done in conjunction with Study Abroad.

**Requisites:** Concurrent enrollment in a UW-Madison Study Abroad program

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**INTL ST 502 – STUDY ABROAD TOPICS IN POLITICS AND POLICY IN THE GLOBAL ECONOMY**  
1-6 credits.

Course reserved as a course equivalency for topics courses done in conjunction with Study Abroad.

**Requisites:** Concurrent enrollment in a UW-Madison Study Abroad program

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**INTL ST 503 – STUDY ABROAD TOPICS IN CULTURE IN THE AGE OF GLOBALIZATION**  
1-6 credits.

Course reserved as a course equivalency for topics courses done in conjunction with Study Abroad.

**Requisites:** Concurrent enrollment in a UW-Madison Study Abroad program

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**INTL ST 504 – STUDY ABROAD TOPICS IN GLOBAL ENVIRONMENT**  
1-6 credits.

Course reserved as a course equivalency for topics courses done in conjunction with Study Abroad.

**Requisites:** Concurrent Enrollment in a UW-Madison Study Abroad program

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**INTL ST 520 – STUDY ABROAD TOPICS IN INTERNATIONAL STUDIES**

1-6 credits.

Course reserved as a course equivalency for topics courses done in conjunction with Study Abroad.

**Requisites:** Concurrent Enrollment in a UW-Madison Study Abroad program

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**INTL ST 523 – INTERNATIONAL INTERNSHIP**

1-3 credits.

Course reserved as a course equivalency for topics courses done in conjunction with study abroad.

**Requisites:** Concurrent enrollment in a UW-Madison study abroad

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**INTL ST/GEN&WS 535 – WOMEN'S GLOBAL HEALTH AND HUMAN RIGHTS**

3 credits.

This course will take a human rights approach to global women's health to provide an overview of health issues within the context of a woman's life cycle. It will pay special attention to the socio-cultural and economic factors that play a role in determining women's access to quality basic health care.

**Requisites:** GWS 103 or another global health course

**Course Designation:** Breadth - Either Biological Science or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**INTL ST 601 – TOPICS IN GLOBAL SECURITY**

1-4 credits.

Treatment of topics in global security. Can be repeated by students but not with the same content.

**Requisites:** Prerequisites may vary with topic

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**INTL ST 602 – TOPICS IN POLITICS AND POLICY IN THE GLOBAL ECONOMY**

1-4 credits.

Treatment of topics in international political economy and policy studies. Can be repeated by students but not with the same content.

**Requisites:** Prerequisites may vary with topic

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**INTL ST 603 – TOPICS IN CULTURE IN THE AGE OF GLOBALIZATION**

1-4 credits.

Treatment of topics in culture in the age of globalization. Can be repeated by students but not with the same content.

**Requisites:** Prerequisite may vary with topic

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**INTL ST 604 – TOPICS IN GLOBAL ENVIRONMENT**

1-4 credits.

Treatment of topics in international relations and the environment. Can be repeated by students but not with the same content.

**Requisites:** Prerequisites may vary with topic

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2011

**INTL ST 620 – TOPICS IN INTERNATIONAL STUDIES**

1-4 credits.

Treatment of topics in international studies. Can be repeated by students but not with the same content.

**Requisites:** None

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**INTL ST 622 – WASHINGTON DC SEM IN INTERNATIONAL AFFAIRS SEMINAR**

4 credits.

Seminar explores current issues in international affairs and the ways in which different organizations, businesses, corporations, NGOs and IOS seek to address them. Open to participants of the Washington DC semester in international affairs program only.

**Requisites:** Must be a participant in the Washington DC semester in international affairs program only

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**INTL ST 680 – HONORS THESIS COLLOQUIUM**

2 credits.

Honors Colloquium: A forum on the challenges of research/writing interdisciplinary topics in international studies. Discussions of strategy, oral presentations, critiquing and support. The seminar spans the process from initial attempts to final revisions.

**Requisites:** Only International Studies majors writing honors thesis consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions



**INTL ST 681 – SENIOR HONORS THESIS**

3 credits.

Individual study and research for International Studies majors writing theses for the honors degree.

**Requisites:** International Studies majors writing honors thesis and consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**INTL ST 682 – SENIOR HONORS THESIS**

3 credits.

Individual study and research for majors writing theses for the honors degree; continuation of Intl St 681.

**Requisites:** International Studies majors writing honors thesis and consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**INTL ST 691 – SENIOR THESIS**

3 credits.

Individual study and research for International Studies majors writing theses.

**Requisites:** International Studies majors writing honors thesis and consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**INTL ST 692 – SENIOR THESIS**

3 credits.

Individual study and research for International Studies majors writing theses; continuation of Intl St 691.

**Requisites:** Intl St 691 and declared International Studies major

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**INTL ST 699 – DIRECTED STUDY**

1-4 credits.

Graded on lettered basis; requires written cons inst.

**Requisites:** Jr or Sr st and written cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**INTL ST 720 – GLOBAL STUDIES SEMINAR**

3 credits.

Provides a small graduate seminar setting for an interdisciplinary survey of major approaches to the study of globalization. It aims to familiarize students with key theories, issues, and debates, as well as methodological tools. Topics will include global economy, environment, health, culture, media, development, labor, governance, civil society, science, technology, and geography.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

## ITALIAN (FRENCH AND ITALIAN) (ITALIAN)

**ITALIAN 100 – ITALIAN LANGUAGE ABROAD I**

1-4 credits.

First semester Italian language course taken on a study abroad program for which there is no equivalent on this campus.

**Requisites:** Stdts may not receive cr for both ITALIAN 100 101

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**ITALIAN 101 – FIRST SEMESTER ITALIAN**

4 credits.

For students who have not studied Italian.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ITALIAN 102 – SECOND SEMESTER ITALIAN**

4 credits.

Open to Fr

**Requisites:** ITALIAN 101 or 181 or 1 yr HS Italian.

**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ITALIAN 103 – ITALIAN LANGUAGE ABROAD II**

1-4 credits.

Second semester Italian language course taken on a study abroad program for which there is no equivalent on this campus.

**Requisites:** Stdts may not receive cr for both ITALIAN 103 102

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No



**ITALIAN 181 – FIRST SEMESTER ITALIAN HONORS**

4 credits.

Accelerated course for honors students with no previous training in the language; oral practice, grammar, reading, reading. Stdts may not receive credit for both 101 181

**Requisites:** Open to Fr.**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2014**ITALIAN 182 – SECOND SEMESTER ITALIAN HONORS**

4 credits.

Accelerated course for honors students. Oral practice, grammar, reading.

Open to Fr. Stdts may not receive credit for both 102 182

**Requisites:** ITALIAN 101 or 181, or 2 yrs HS Italian.**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2014**ITALIAN 200 – ITALIAN LANGUAGE ABROAD III**

1-4 credits.

Third semester Italian language course taken on a study abroad program for which there is no equivalent on this campus.

**Requisites:** Stdts may not receive cr for both ITALIAN 200 203**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**ITALIAN 201 – ITALIAN FOR SPEAKERS OF OTHER ROMANCE LANGUAGES**

4 credits.

Accelerated development of oral, reading and writing skills up to a level equivalent to that of the end of second semester Italian (102).

Instruction draws on features shared by Romance languages, with focus on distinctions particular to Italian. No previous knowledge of Italian is required.

**Requisites:** 4 sem (or equiv proficiency) in another Romance lang, or cons inst**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ITALIAN 203 – THIRD SEMESTER ITALIAN**

4 credits.

Class reading of modern Italian plays, novels, and short stories; study of idioms, conversation practice; review of grammar. Open to Fr

**Requisites:** ITALIAN 102 or 182 or 2 yrs HS Italian.**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ITALIAN 204 – FOURTH SEMESTER ITALIAN**

4 credits.

Continuation of ITALIAN 203, with more advanced materials. Open to Fr

**Requisites:** ITALIAN 203 or 3 yrs HS Italian.**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ITALIAN 210 – ITALIAN STUDIES ABROAD IN THE HUMANITIES I**

1-4 credits.

Italian studies course taken on a study abroad program for which there is no equivalent on this campus.

**Requisites:** Current enrl in a study abroad prgm**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**ITALIAN 230 – MODERN ITALIAN CULTURE**

3 credits.

A survey of Italian history, art, music, politics, and general culture from the Risorgimento to the present.

**Requisites:** ITALIAN 204, 205 or equiv**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ITALIAN 298 – DIRECTED STUDY**

1-3 credits.

Graded on a Cr/N basis; requires cons inst

**Requisites:** Jr st.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2005

**ITALIAN 299 – DIRECTED STUDY**

1-3 credits.

Graded on a lettered basis; requires cons inst

**Requisites:** Jr st.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**ITALIAN 301 – ITALIAN FOR READING KNOWLEDGE**

3 credits.

For students with language proficiency and graduate students who wish to acquire a reading knowledge of Italian. Intensive grammar; readings from appropriate texts in the humanities, sciences and social sciences. Gives no language credit.

**Requisites:** So st**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ITALIAN 310 – ITALIAN STUDIES ABROAD IN THE HUMANITIES II**

1-4 credits.

Italian studies course taken on a study abroad program for which there is no equivalent on this campus.

**Requisites:** Current enrl in a study abroad prgm**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**ITALIAN 311 – ADVANCED ITALIAN LANGUAGE**

3 credits.

Development of accurate and nuanced capacity for expression in Italian and for understanding the spoken and written language. The course will also address Italian phonetics and phonology to develop accurate pronunciation.

**Requisites:** ITALIAN 204 or 205**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ITALIAN 312 – WRITING WORKSHOP**

3 credits.

Continuation of 311. Development of composition and editing skills with focus on grammatical accuracy, conventions, and rhetorical techniques for organizing information, presenting coherent arguments, and appropriateness of language to topic.

**Requisites:** ITALIAN 204 or consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ITALIAN 321 – INTRODUCTION TO ITALIAN LITERATURE**

3 credits.

From its beginnings through the Renaissance. Readings and discussion.

**Requisites:** ITALIAN 204 or 205**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ITALIAN 322 – INTRODUCTION TO ITALIAN LITERATURE**

3 credits.

Continuation of 321. From the end of the Renaissance to the twentieth century. Open to Fr

**Requisites:** ITALIAN 204 or 205.**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ITALIAN 340 – STRUCTURES OF ITALIAN**

3 credits.

Examination of Italian phonetics and phonology, morphology and word formation, and syntax, with attention to contrasts with English. Prepares for advanced courses in Italian linguistics.

**Requisites:** 4th semester proficiency in Italian cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2013**ITALIAN/CLASSICS 350 – ROME: THE CHANGING SHAPE OF THE ETERNAL CITY**

3-4 credits.

Changing shape of Rome as a physical city and as a cultural metaphor from the Augustan age to the Renaissance.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**ITALIAN 420 – TOPICS IN ITALIAN: STUDY ABROAD**

1-6 credits.

A course carried with a UW-Madison Study Abroad Program which has no equivalent on this campus.

**Requisites:** Current reg in a UW-Madison study abroad prgm**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2011

**ITALIAN 423 – CORSO DI STILISTICA APPLICATA**

3 credits.

**Requisites:** ITALIAN 311-312 or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2012**ITALIAN/FRENCH/PORTUG/SPANISH 429 – INTRODUCTION TO THE ROMANCE LANGUAGES**

3 credits.

Introduction to structural similarities and differences apparent in major Romance languages (French, Italian, Portuguese, Spanish) and to their historical developments, with reference to basic linguistic features of each language: phonology, morphology, syntax, and lexicon. Does not count towards French major.

**Requisites:** Span 226 or PORTUG 226 or FRENCH 228 or Ital 311, or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ITALIAN 450 – SPECIAL TOPICS IN ITALIAN LITERATURE**

3 credits.

Senior Proseminar; topics vary.

**Requisites:** ITALIAN 321-322 or cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ITALIAN 452 – SPECIAL TOPICS IN ITALIAN STUDIES: CULTURE, FILM, LANGUAGE**

3 credits.

Examination of an aspect of Italian studies: culture, film, language; topic varies.

**Requisites:** ITALIAN 230 or cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ITALIAN 453 – SPECIAL TOPICS IN ITALIAN STUDIES: CULTURE, FILM, LANGUAGE**

1 credit.

Examination of a particular aspect of Italian culture; topic varies.

**Requisites:** ITALIAN 230 or cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ITALIAN/COM ARTS 460 – ITALIAN FILM**

3 credits.

General survey of Italian film and of the relationship between film and the other arts. Consideration of film theory and of the Italian and European socio-political situation in the context of film production.

**Requisites:** Stdts taking crse for cr toward Ital major must have Ital 204 or equiv; all other stdts must have Com Arts 350 or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ITALIAN/CLASSICS/FRENCH/HISTORY/MEDIEVAL 550 – ADVANCED INTERDISCIPLINARY STUDIES IN MEDIEVAL CIVILIZATION**

3 credits.

An integrated treatment of a specific theme, to be announced by a group of specialists in different fields.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012**ITALIAN 601 – L'OTTOCENTO**

3 credits.

Major currents and writers of Italian Romanticism; Foscolo, Leopardi, Manzoni.

**Requisites:** ITALIAN 321-322 or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**ITALIAN 621 – IL SETTECENTO**

3 credits.

**Requisites:** ITALIAN 321-322 or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**ITALIAN 622 – IL SETTECENTO**

3 credits.

Continuation of 621

**Requisites:** ITALIAN 321-322 or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015

**ITALIAN 623 – IL TEATRO ITALIANO**

3 credits.

**Requisites:** None

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**ITALIAN 631 – LINEAMENTI DI LETTERATURA ITALIANA**

3 credits.

**Requisites:** Cons inst or 2 yrs college Italian

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ITALIAN 632 – LINEAMENTI DI LETTERATURA ITALIANA**

3 credits.

**Requisites:** Cons inst or 2 yrs college Italian

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**ITALIAN 635 – IL ROMANZO ITALIANO**

3 credits.

**Requisites:** ITALIAN 321-322 or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**ITALIAN 636 – IL ROMANZO ITALIANO**

3 credits.

Continuation of 635

**Requisites:** ITALIAN 321-322 or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ITALIAN 637 – LA POESIA DEL NOVECENTO**

3 credits.

A survey of major poets and poetic currents of the early twentieth century; the "Crepuscolari," Hermeticism.

**Requisites:** ITALIAN 321-322 or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**ITALIAN 641 – IL SEICENTO: RIBELLI, LIBERTINI E ORTODOSSI**

3 credits.

Lo sviluppo della cultura barocca; letture e discussioni.

**Requisites:** Cons inst or 2 yrs college Italian

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**ITALIAN 651 – IL RINASCIMENTO**

3 credits.

I: Il Quattrocento. Lo sviluppo dell'umanesimo; Poliziano, Lorenzo de' Medici, Pulci, Boiardo, e Alberti; II: Il Cinquecento. Ariosto, Machiavelli, Castiglione, Tasso.

**Requisites:** ITALIAN 321-322 or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ITALIAN/MEDIEVAL 659 – DANTE'S DIVINA COMMEDIA**

3 credits.

Lectures on Dante's life and times, reading Divine Comedy, commentary, discussion, reports.

**Requisites:** ITALIAN 321-322 or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**ITALIAN/MEDIEVAL 660 – DANTE'S DIVINA COMMEDIA**

3 credits.

Continuation of 659

**Requisites:** ITALIAN 321-322 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2011**ITALIAN/MEDIEVAL 671 – IL DUECENTO**

3 credits.

I: A systematic study of the earliest literary texts in Italy; the rise of the love lyric among the Sicilian poets; representative narrative works. II: The development of the lyric from Guittone d'Arezzo to the poets of the Dolce Stil Nuovo (Guinizzelli, Cavalcanti, Dante).

**Requisites:** ITALIAN 321-322 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**ITALIAN/MEDIEVAL 672 – IL DUECENTO**

3 credits.

Continuation of 671

**Requisites:** ITALIAN 321-322 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2010**ITALIAN 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2009**ITALIAN 682 – SENIOR HONORS THESIS**

3 credits.

**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2010**ITALIAN 691 – SENIOR THESIS**

2 credits.

**Requisites:** Consent of instructor**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**ITALIAN 692 – SENIOR THESIS**

2 credits.

**Requisites:** Consent of instructor**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**ITALIAN 698 – DIRECTED STUDY**

1-6 credits.

Cr/N. Graded on a Cr/N basis; requires cons inst

**Requisites:** Jr or Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ITALIAN 699 – DIRECTED STUDY**

1-6 credits.

Graded on a lettered basis; requires cons inst

**Requisites:** Jr or Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ITALIAN 730 – TOPICS IN ITALIAN LITERATURE AND CULTURE**

3 credits.

Graduate-level examination of aspects of Italian literature and culture, including disciplines such as language and cinema. Topic varies.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**ITALIAN 731 – LINEAMENTI DI LETTERATURA ITALIANA**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**ITALIAN 732 – LINEAMENTI DI LETTERATURA ITALIANA**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017

**ITALIAN 741 – SEICENTO E L ARCADIA**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ITALIAN 772 – HISTORY OF THE ITALIAN LANGUAGE**

3 credits.

Continuation of 771

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2011**ITALIAN 799 – INDEPENDENT STUDY**

1-6 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**ITALIAN/FRENCH/PORTUG/SPANISH 817 – ROMANCE PHILOLOGY**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**ITALIAN/FRENCH 821 – ISSUES IN METHODS OF TEACHING FRENCH AND ITALIAN**

1-3 credits.

**Requisites:** French/Italian 820; or foreign lang teaching experience**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ITALIAN 951 – SEMINAR-STUDIES IN ITALIAN LITERATURE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ITALIAN 952 – SEMINAR-STUDIES IN ITALIAN LITERATURE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ITALIAN 990 – INDIVIDUAL RESEARCH**

1-12 credits.

In connection with the doctoral dissertation.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**JEWISH STUDIES (JEWISH)****JEWISH 202 – TOPICS IN JEWISH STUDIES**

3 credits.

Special topics in Jewish studies. The topic is footnoted in the Timetable.

**Requisites:** So st**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**JEWISH/RELIG ST 211 – INTRODUCTION TO JUDAISM**

4 credits.

General introduction to Judaism covering the biblical, classical rabbinic, medieval, and modern periods.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**JEWISH/HISTORY 213 – JEWS AND AMERICAN POP. CULTURE**

3-4 credits.

Explores the interplay between Jews and U. S. popular culture, covering such subjects as early 20th century vaudeville, the "golden age" of Hollywood, rhythm and blues music, television, and stand-up comedy.

**Requisites:** None**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017



**JEWISH/HISTORY 219 – THE AMERICAN JEWISH EXPERIENCE: FROM SHTETL TO SUBURB**

4 credits.

Surveys American Jews from the eighteenth century until after WW II, examining political behavior (radicalism, liberalism, and nationalism), class formation, social mobility, culture, inter-ethnic group relations, religion, and problems in community building.

**Requisites:** Open to Fr**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**JEWISH/HISTORY 220 – INTRODUCTION TO MODERN JEWISH HISTORY**

4 credits.

The history of the Jews in selected parts of the world since the 17th century. Particular attention will be paid to the fact that this is the history of a minority group whose life unfolds in relationship to a larger society.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**JEWISH/CLASSICS/LITTRANS/RELIG ST 227 – INTRODUCTION TO BIBLICAL LITERATURE (IN ENGLISH)**

4 credits.

Introduction to the literature and literary history of the Old Testament, Apocrypha, Dead Sea Scrolls, Talmud, and Midrashim.

**Requisites:** Not open to students that have completed HEBR ST 217**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**JEWISH 230 – ELEMENTARY TOPICS IN JEWISH LITERATURE**

3-4 credits.

Elementary-level topics course in Jewish literature.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**JEWISH 231 – ELEMENTARY TOPICS IN JEWISH HISTORY**

3-4 credits.

Elementary-level topics course in Jewish history.

**Requisites:** Prerequisites vary by topic**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**JEWISH 232 – ELEMENTARY TOPICS IN JEWISH PHILOSOPHY AND THE ARTS**

3-4 credits.

Elementary-level topics course in Jewish philosophy and the arts.

**Requisites:** Prerequisites vary by topic**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**JEWISH 233 – ELEMENTARY TOPICS IN JEWISH STUDIES: SOCIAL SCIENCES**

3-4 credits.

Elementary-level course in Jewish Studies; topics drawn from the social sciences and vary by semester.

**Requisites:** Prerequisites vary by topic**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**JEWISH 236 – BASCOM COURSE**

3 credits.

A low-enrollment course developing skills in critical reading, logical thinking, use of evidence, and use of library resources. Emphasis on writing in the conventions of specific fields. Open to Fr.

**Requisites:** Successful completion of or exemption from Com A requirement.**Course Designation:** Gen Ed - Communication Part B

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015

**JEWISH/CLASSICS/LITTRANS/RELIG ST 237 – BIBLICAL POETRY IN TRANSLATION**

3 credits.

A study of the poetry of the Hebrew Bible as literature within the context of other ancient Near Eastern poetry. Influence of biblical poetry on the Dead Sea Scrolls, New Testament, medieval Hebrew poetry, and Jewish and Christian liturgies.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2010**JEWISH/CLASSICS 241 – INTRODUCTION TO BIBLICAL ARCHAEOLOGY**

4 credits.

An overview of archaeology and its relationship to understanding the biblical world.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**JEWISH/SOC 258 – THE JEWS, STATES, AND CITIZENSHIP. A SOCIOLOGICAL PERSPECTIVE**

3 credits.

Introduction to historical sociology of citizenship through a comparative investigation of Jewish emancipation in nineteenth-century Europe, including social origins of emancipation, its consequences for the social organization and collective identity of Jews, and Jewish responses to emancipation.

**Requisites:** Open to Fr**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2009**JEWISH/GERMAN 267 – YIDDISH SONG AND THE JEWISH EXPERIENCE**

3-4 credits.

Explores Yiddish song as an expression of the modern Jewish experience from Eastern Europe to the US. Covers folk song, popular and art music. Music and readings together provide an analytical framework to examine cultural and historical issues.

**Requisites:** For Communication B sections, satisfied Communication A requirement**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**JEWISH/GERMAN/LITTRANS 269 – YIDDISH LITERATURE AND CULTURE IN EUROPE**

3 credits.

Exploration of European Yiddish fiction, poetry, folklore, and cinema, with a focus on works of the 19th and 20th centuries.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**JEWISH/RELIG ST 278 – FOOD IN RABBINIC JUDAISM**

3-4 credits.

Rabbinic literature frames the fundamental attitudes for how Judaism relates to food. Students will examine the history of food in rabbinic Judaism. In addition, theories from the field of food studies will be applied to rabbinic texts.

**Requisites:** Open to Freshmen**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**JEWISH/GERMAN/LITTRANS 279 – YIDDISH LITERATURE AND CULTURE IN AMERICA**

3 credits.

Exploration of American Yiddish poetry, fiction, theater, and cinema created by European Jews in the United States.

**Requisites:** Open to Freshmen**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**JEWISH 299 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Graded on a lettered basis; So st; requires cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2008**JEWISH/HEBR-MOD 301 – INTRODUCTION TO HEBREW LITERATURE**

3 credits.

Selected works for different periods and genres; class discussions in Hebrew.

**Requisites:** Jewish Studies 202**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**JEWISH/HEBR-MOD 302 – INTRODUCTION TO HEBREW LITERATURE**  
3 credits.

Continuation of 301.

**Requisites:** Jewish Studies 301**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**JEWISH/LITTRANS 318 – MODERN JEWISH LITERATURE**  
3-4 credits.

Pre-modern Jewish society's breakdown, immigration, the challenges of integration and exclusion, and the establishment of new communities will serve as a backdrop for the analysis and comparison of Jewish literary texts written in Hebrew, Yiddish, German, Russian, and English.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**JEWISH/LITTRANS/RELIG ST 328 – CLASSICAL RABBINIC LITERATURE IN TRANSLATION**  
3-4 credits.

Introduction to the literature of the Classical Rabbinic or Talmudic period of Judaism (2nd to 7th centuries CE). Historical and intellectual background; the interrelation of liturgy, legal and non-legal literature.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2014**JEWISH/CLASSICS/HEBR-BIB/LITTRANS/RELIG ST 332 – PROPHETS OF THE BIBLE**  
4 credits.

An introduction to the thought, literature, and history of the prophets of ancient Israel (in English).

**Requisites:** CLASSICS/JEWISH/LITTRANS/RELIG ST/CLASSICS/JEWISH/LITTRANS 227 or Sophomore standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**JEWISH/CLASSICS/RELIG ST 335 – KING DAVID IN HISTORY AND TRADITION**  
3 credits.

An exploration of the literary and historical aspects of the text of 1-2 Samuel + 1 Kings 1-2; the history and archaeology of Jerusalem during the tenth century B.C.E.; and the varieties of ways in which the figure of King David has been received in subsequent religious and secular literature, visual art, music, television, and cinema.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**JEWISH 343 – ISRAELI FICTION IN TRANSLATION**  
3-4 credits.

Major writers, trends and themes in Israeli fiction from pre-State period to present. Meets with LitTrans 367.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**JEWISH/CLASSICS/RELIG ST 346 – JEWISH LITERATURE OF THE GRECO-ROMAN PERIOD**  
3 credits.

Jewish literature from 350 BCE to 150 CE. The Greek and Hebrew sources include stories, religious poetry, wisdom books and apocalyptic texts.

Readings (in translation) from the Apocrypha, Pseudepigrapha, and the Dead Sea Scrolls in their historical, cultural and literary setting.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**JEWISH 356 – JERUSALEM, HOLY CITY OF CONFLICT AND DESIRE**  
3 credits.

Jerusalem, the Holy City for Judaism, Christianity, and Islam, has become the center of religious, political, and national contention. This course explores the sources of the conflict and its development over the centuries, with the aim of illuminating the complex situation of the region and its implications for the world.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**JEWISH/LITTRANS 367 – ISRAELI FICTION IN TRANSLATION**

3-4 credits.

Major writers, trends and themes in Israeli fiction from pre-State period to present. Meets with Hebrew Studies 343. 4th credit earned by prosmr meetings research paper

**Requisites:** Open to Fr.**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**JEWISH/HISTORY/MEDIEVAL/RELIG ST 368 – THE BIBLE IN THE MIDDLE AGES**

3 credits.

Medieval Bible and its shaping effect on medieval culture.

**Requisites:** Sophomore standing or consent of instructor**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2009**JEWISH/ANTHRO/RELIG ST 372 – JEWS OF CENTRAL AND EASTERN EUROPE**

3-4 credits.

Course will focus on main characteristics of Central and Eastern European Jews (Ashkenazim) in their cultural-historical development.

Open to Fr with cons inst

**Requisites:** So st or cons inst.**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2008**JEWISH/HISTORY 373 – MODERN POLITICAL HISTORY OF THE JEWS: 1655-1919**

4 credits.

Focuses on the politics of emancipation (the acquisition of civil rights). Analyzes Jewish politics from the beginnings of political integration into European society (1695) to the completion of the process in the aftermath of World War I.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2011**JEWISH/HISTORY 374 – MODERN POLITICAL HISTORY OF THE JEWS: ERA OF MASS MOVEMENTS, 1870-1970**

4 credits.

This course will focus on Jewish socialist and nationalist political movements, analyzing their origins in imperial Russia in the late 19th century and their development in the Soviet Union, Poland, Palestine/ Israel, and the U.S. in the 20th century.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2012**JEWISH/RELIG ST 377 – JEWISH CULTURAL HISTORY (IN ENGLISH)**

4 credits.

Survey of Jewish cultural history from the Biblical to Talmudic and early Muslim periods; and its interaction with other cultures, including Hellenistic, Roman, and Muslim.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2010**JEWISH/HEBR-MOD 401 – TOPICS IN MODERN HEBREW / ISRAELI LITERATURE AND CULTURE I**

3 credits.

Readings in Hebrew literature, class conducted in Hebrew.

**Requisites:** Jewish Studies 302.**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**JEWISH/HEBR-MOD 402 – TOPICS IN MODERN HEBREW / ISRAELI LITERATURE AND CULTURE II**

3 credits.

Continuation of 401.

**Requisites:** Jewish Studies 401**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017

**JEWISH/HISTORY 416 – EASTERN EUROPEAN JEWS IN THE UNITED STATES, 1880S-1930S**

3-4 credits.

Analyzes the culture and community of the two million Jews who migrated to the United States between 1880 and 1930.

**Requisites:** None**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2009**JEWISH 421 – SOPHOMORE/JUNIOR SEMINAR: INTRODUCTION TO JEWISH STUDIES**

3 credits.

This course will introduce prospective majors to the methods and concerns of Jewish studies. It will focus on a topic relevant to all periods of the Jewish experience using multiple disciplines (e.g., history, philosophy, literature, Biblical studies, political science).

**Requisites:** None**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**JEWISH 430 – INTERMEDIATE TOPICS IN JEWISH LITERATURE**

3-4 credits.

Intermediate-level topics course in Jewish literature.

**Requisites:** Prerequisites vary by topic**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**JEWISH 431 – INTERMEDIATE TOPICS IN JEWISH HISTORY**

3-4 credits.

Intermediate-level topics course in Jewish history.

**Requisites:** Prerequisites vary by topic**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**JEWISH 432 – INTERMEDIATE TOPICS IN JEWISH PHILOSOPHY AND THE ARTS**

3-4 credits.

Intermediate-level topics course in Jewish philosophy and the arts.

**Requisites:** Prerequisites vary by topic**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**JEWISH 433 – INTERMEDIATE TOPICS IN JEWISH STUDIES: SOCIAL SCIENCES**

3-4 credits.

Intermediate-level course in Jewish Studies; topics drawn from the social sciences and vary by semester.

**Requisites:** Prerequisites vary by topic**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**JEWISH/PHILOS/RELIG ST 435 – JEWISH PHILOSOPHY FROM ANTIQUITY TO THE SEVENTEENTH CENTURY**

3 credits.

A survey of major philosophers and philosophical currents within Judaism from antiquity through the seventeenth century.

**Requisites:** Enrollment limited to students who have taken 3 credits in Philosophy**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2012**JEWISH/PHILOS 442 – MORAL PHILOSOPHY AND THE HOLOCAUST**

3 credits.

Selected moral and philosophical issues raised by the Holocaust such as when and whom to rescue; includes issues arising after the annihilation such as forgiveness and reconciliation.

**Requisites:** Junior standing**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**JEWISH/RELIG ST 448 – CLASSICAL RABBINIC TEXTS**

3 credits.

Introduction to the language and literature of the rabbinic period in Judaism (2nd-7th century CE). Acquisition of language skills to read Hebrew texts of this period, including Mishna, Tosephta, and Midrash.

**Requisites:** Hebrew 202 or 324 or consent of instructor**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2012

**JEWISH 450 – UNDEGRADUATE SEMINAR IN JUDAISM AND THE ARTS**  
3 credits.

This course provides an understanding of Jewish art and artists in the shaping of culture both historically and today through lectures and discussions; guest scholars, artists and critics; and performances, exhibitions and screenings.

**Requisites:** None

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

**JEWISH/CLASSICS 451 – BIBLICAL ARCHAEOLOGY**

3 credits.

An examination of current problems, methods, and trends in archaeological research in the lands of the Bible.

**Requisites:** Junior standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**JEWISH/HEBR-BIB 452 – BIBLICAL ARCHAEOLOGY**

2 credits.

Continuation of 451.

**Requisites:** Junior standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**JEWISH 490 – TOPICS IN JEWISH STUDIES**

3 credits.

Special topics in Jewish studies. The topic is footnoted in the Timetable.

**Requisites:** Jr st; some prior coursework in Jewish studies or cons inst

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2012

**JEWISH/GERMAN 510 – GERMAN-JEWISH CULTURE SINCE THE 18TH CENTURY**

3 credits.

Investigates German-Jewish culture since the 18th century, concentrating on toleration, emancipation, acculturation, assimilation, anti-Semitism, and Bildung.

**Requisites:** Jr st

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2010

**JEWISH/HEBR-BIB 513 – BIBLICAL TEXTS, POETRY**

3 credits.

Critical reading of selected texts from the Minor Prophets and the Writings.

**Requisites:** HEBR-BIB 324

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**JEWISH/HEBR-BIB 514 – BIBLICAL TEXTS, POETRY**

3 credits.

Continuation of 513.

**Requisites:** HEBR-BIB/JEWISH 513

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**JEWISH/CURRIC/HISTORY 515 – HOLOCAUST: HISTORY, MEMORY AND EDUCATION**

3 credits.

This course explores the ways in which Holocaust history, memory and education are mutually entangled, politically charged and morally complex. Using primarily American sites of memory, students will critically analyze a variety of representations of the Shoah—in literature, films, memoirs, monuments, museums and classrooms.

**Requisites:** Jr st or cons inst

**Course Designation:** Gen Ed - Communication Part B

Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

**JEWISH/HISTORY 518 – ANTI-SEMITISM IN EUROPEAN CULTURE, 1700-1945**

3 credits.

A critical review of major theories of anti-Semitism and a history of modern anti-Semitism.

**Requisites:** Jr st

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**JEWISH/HISTORY/RELIG ST 529 – INTELLECTUAL AND RELIGIOUS HISTORY OF EUROPEAN JEWRY, 1648-1939**

4 credits.

Main movements and trends of thought, religion, and culture as European Jewry gained emancipation and adjusted to mass society.

**Requisites:** Hist 119 or 120 or 512 or 513; or Hist/JEWISH/HISTORY 220; or Hebr St/Jewish 471 or 472

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**JEWISH 533 – READINGS IN CONTEMPORARY HEBREW LITERATURE**

3 credits.

**Requisites:** JEWISH/HEBR-MOD 402

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2012

**JEWISH 534 – READINGS IN CONTEMPORARY HEBREW LITERATURE**

3 credits.

**Requisites:** JEWISH 533

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

**JEWISH/ENGL 539 – JEWISH LITERATURES IN DIASPORA**

3 credits.

An exploration of Jewish literature in English and in Anglophone contexts.

**Requisites:** 6 credits of introductory English

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2005

**JEWISH/ENGL 593 – LITERATURE OF JEWISH IDENTITY IN AMERICA**

3 credits.

The construction of Jewish American identity within American life.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**JEWISH 625 – THE HOLOCAUST: FACTS, TRIALS, VERDICTS, POST-VERDICTS**

3 credits.

The background to the Holocaust, its implementation, the efforts to impose the criminal law on its perpetrators and the points of interaction between the Holocaust and U.S. policy.

**Requisites:** Law stdt or Jr st

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**JEWISH 630 – ADVANCED TOPICS IN JEWISH LITERATURE**

3-4 credits.

Advanced-level topics course in Jewish literature.

**Requisites:** Prerequisites vary by topic

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**JEWISH 631 – ADVANCED TOPICS IN JEWISH HISTORY**

3-4 credits.

Advanced-level topics course in Jewish history.

**Requisites:** Prerequisites vary by topic

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**JEWISH 632 – ADVANCED TOPICS IN JEWISH PHILOSOPHY AND THE ARTS**

3-4 credits.

Advanced-level topics course in Jewish philosophy and the arts.

**Requisites:** Prerequisites vary by topic

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**JEWISH 633 – ADVANCED TOPICS IN JEWISH STUDIES: SOCIAL SCIENCES**

3-4 credits.

Advanced-level course in Jewish Studies; topics drawn from the social sciences and vary by semester.

**Requisites:** Prerequisites vary by topic

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

**JEWISH/POLI SCI 665 – ISRAELI POLITICS AND SOCIETY**

3-4 credits.

Course provides historical and analytical understanding of Israeli internal political life and institutions. Attention will be paid to political culture, coalition formation and ethnic politics as they are manifested in Israeli politics. The effect of regional conflict upon Israel's domestic politics will also be considered.

**Requisites:** Sophomore standing and (POLI SCI 104, 120, 140, 182, 184, INTL ST 101 or POLI SCI/LEGAL ST/POLI SCI 217) or (POLI SCI 103, 106, or 186 taken prior to fall 2017) or graduate standing

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**JEWISH 675 – RESEARCH COLLOQUIUM FOR MAJORS**

1 credit.

Colloquium for students conducting research under Jewish Studies 677, which must be taken concurrently. Discussion of problems that arise in conducting research, interpreting evidence, and composing an argument. Students will present research-in-progress for group discussion. Con reg in JEWISH 677

**Requisites:** Major in Jewish studies; permission of undergrad advisor; cons inst.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**JEWISH 677 – INDEPENDENT RESEARCH FOR MAJORS**

3 credits.

Original research project supervised by individual faculty; only for students majoring in Jewish studies. Topics depend upon student's interest and faculty member's expertise. Students must register concurrently in Jewish Studies 675.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**JEWISH 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**JEWISH 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**JEWISH 691 – SENIOR THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**JEWISH 692 – SENIOR THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**JEWISH 699 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Graded on a lettered basis; Jr st; requires cons inst

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**JEWISH/HEBR-BIB 954 – THE DEAD SEA SCROLLS**

2 credits.

Research in the literature, religion, and society of the Qumran community.

**Requisites:** 2 yrs of Biblical Hebrew Graduate standing, or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**JEWISH/HEBR-BIB 956 – SEMINAR IN EARLY BIBLICAL INTERPRETATION**

2 credits.

A study of the forms and content of biblical interpretation in Ancient Israelite and Jewish texts. The focus is on three broad domains of literature: the Hebrew Bible, Second Temple sources, and rabbinic midrash.

**Requisites:** 2 yrs of Biblical Hebrew Grad standing, or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

## JOURNALISM AND MASS COMMUNICATION (JOURN)

### JOURN 162 – MASS MEDIA IN MULTICULTURAL AMERICA 3 credits.

An introduction to the roles and functions of print, film, electronic and digital media in multicultural America. International comparisons highlight differences and commonalities in the social and cultural position of mass media in societies with racially and ethnically diverse populations.

**Requisites:** None

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### JOURN 175 – MEDIA FLUENCY FOR THE DIGITAL AGE 3 credits.

The media landscape has changed vastly over the last 20 years, and it has major ramifications for how we see the practice and professions of journalism and strategic communication. Through discussions in class and a group media fluency blog, students will examine and engage with this contemporary media landscape.

**Requisites:** None

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

### JOURN 176 – SPECIAL TOPICS IN MASS COMMUNICATION 3 credits.

Special focus on a specific conceptual issue or topic involving mass communication.

**Requisites:** Freshmen or Sophomore standing

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

### JOURN 201 – INTRODUCTION TO MASS COMMUNICATION 4 credits.

How the mass media are organized and how they function in modern society; their technological basis, economic and political foundations, and social implications.

**Requisites:** Open to Fr; completion of Com-A crse

**Course Designation:** Gen Ed - Communication Part B

Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### JOURN 202 – MASS COMMUNICATION PRACTICES 6 credits.

Communication as a process involving sender and receiver, message and medium. Course provides students with a foundation of basic communication skills, helps students develop an appreciation of how different media influence the nature of information presented, and introduces students to technical skills.

**Requisites:** Admission to Schl of Journ

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### JOURN 335 – PRINCIPLES AND PRACTICES OF REPORTING 4 credits.

Basic reporting for print and electronic media. Students will bring together technical and conceptual skills by creating a variety of print, audio, and web-based news stories on a current public issue.

**Requisites:** JOURN 202

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### JOURN 345 – PRINCIPLES AND PRACTICE OF STRATEGIC COMMUNICATION 4 credits.

Introduction to strategic communication for students interested in advertising, public relations, health communications, and political campaigns.

**Requisites:** JOURN 202

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### JOURN/POLI SCI/URB R PL 373 – INTRODUCTION TO SURVEY RESEARCH 3 credits.

Theory and practice of survey research; planning, sampling, questionnaire construction, interviewing, content analysis, machine tabulation, analysis of data; two hours lecture; two hours lab or field work. Not open to students with credit for POLI SCI 544 prior to fall 2017

**Requisites:** Sophomore standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**JOURN 401 – IN-DEPTH REPORTING**

4 credits.

Advanced reporting with emphasis on critical evaluation of evidence and on recognizing the complex effects of government actions. Students will explore and develop community context stories that originate in a range of venues from the courts to the schools.

**Requisites:** JOURN 335**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**JOURN 404 – INTERPRETATION OF CONTEMPORARY AFFAIRS**

4 credits.

Preparing and writing of editorials, columns and news analyses.

**Requisites:** JOURN 335**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**JOURN 405 – CREATIVE NONFICTION**

4 credits.

Creative elements of non-fiction story telling to develop skills necessary for writing across the journalistic spectrum, from newspapers to magazines to books.

**Requisites:** JOURN 335**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**JOURN 411 – MULTIMEDIA DESIGN**

4 credits.

This course focuses on visual communication and graphic design in multimedia contexts. Students build design and production techniques to relay creative messages through print and digital media. Content explores design theory and techniques, as well as the effects and ethics of visual media messages.

**Requisites:** JOURN 335 or JOURN 345**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**JOURN 415 – SCIENCE AND ENVIRONMENTAL JOURNALISM**

4 credits.

Instruction and practice in strategies for communicating science to the public. Emphases include (1) how to explain difficult concepts and processes; (2) skills for telling interesting and artful stories; and (3) strategies for making reasonable judgments about scientific evidence.

**Requisites:** JOURN 335; cons inst for non-majors**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**JOURN 417 – MAGAZINE PUBLISHING**

4 credits.

This course takes an integrated, in-depth approach to magazine management, writing, editing and design. It covers the magazine industry from both the editorial and business ends, bringing together journalism and strategic communication students. The course produces Curb magazine in print, online and mobile formats.

**Requisites:** JOURN 335 or JOURN 345**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**JOURN 420 – INVESTIGATIVE REPORTING**

4 credits.

This class will teach the techniques of investigative and long-form enterprise reporting. Students will engage in extensive reporting in the field, and produce a final project.

**Requisites:** JOURN 335**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**JOURN 425 – VIDEO JOURNALISM**

4 credits.

Video journalism is widespread, thanks to online news and sources such as YouTube. In this course, students will create news stories using the techniques of videography, digital editing, writing and producing. Video journalism is unique in its language, requiring engaging material, a fast start, sharp focus, short narrative and natural voices. Students will focus on capturing stories with strong visuals and ambient sound of the people affected by issues and events.

**Requisites:** JOURN 335**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**JOURN 426 – COMMUNITY-BASED REPORTING**

4 credits.

Provides advanced, targeted instruction in reporting that pays close attention to neighborhoods or very small communities (subcommunities), also known as hyperlocal reporting. These small communities can be defined by geographic boundaries or boundaries of shared topical interest. The course will locate community-based reporting's place in the larger media ecology of mainstream media (newspapers, TV, weekly papers, magazines, independent websites, etc.), and investigate how local journalism's place in changing media ecologies helps (or discourages) people from becoming active citizens in a democracy.

**Requisites:** JOURN 335

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**JOURN 445 – CREATIVE CAMPAIGN MESSAGES**

4 credits.

Introduction to the creative aspects of message development for advertising, public relations, and other strategic communications.

**Requisites:** JOURN 345

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**JOURN 447 – STRATEGIC MEDIA PLANNING**

4 credits.

Introduction to media planning for students interested in careers in advertising, public relations, or other forms of strategic communication.

**Requisites:** JOURN 345

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**JOURN 449 – ACCOUNT PLANNING AND STRATEGY**

4 credits.

Process of planning, implementing, and analyzing strategic communication campaigns.

**Requisites:** JOURN 345

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**JOURN 453 – STRATEGIC MEDIA RELATIONS**

4 credits.

This course will give students the advanced practical skills and conceptual understanding necessary to function impressively as an entry-level professional in media relations, i.e., transmitting news to mass communicators in traditional and interactive media on behalf of a client or organization.

**Requisites:** JOURN 335 or JOURN 345

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**JOURN 463 – DIGITAL MEDIA STRATEGIES**

4 credits.

Provides an overview of digital media from an objective, strategy, and tactical planning perspective within strategic communication media and promotion campaigns. This course is geared toward students with an interest in careers in advertising, public relations, or other forms of strategic communication. Because of the rapid growth of digital communications, students will benefit from knowing more about digital media whether working in account, media or creative at an agency or corporation.

**Requisites:** Declared in Journalism program and JOURN 345

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**JOURN 464 – PUBLIC RELATIONS STRATEGIES**

4 credits.

Provides an overview of public relations from an objective, strategy, and tactical planning perspective within strategic communication campaigns. A depth course; it takes one core element of a strategic communications campaign, and provides an in-depth study into the topic area of public relations. This course is geared toward students with an interest in careers in advertising, public relations, or other forms of strategic communication.

**Requisites:** JOURN 345

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**JOURN 470 – STRATEGIC COMMUNICATION CAMPAIGNS CAPSTONE**

4 credits.

Provides a grounding in advanced principles of strategic communication campaign development and execution, further developing skills used in creating advertising and marketing communications, focusing on research, strategy, copy and design, media, and public relations/promotions. This course is designed as a capstone experience ('concluding achievement') within the strategic communications track of the Journalism major.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No



**JOURN 475 – SPECIAL TOPICS IN ADVANCED CONCEPTS AND SKILLS**

1-4 credits.

Exploration of a particular set of concepts and skills in more depth. Subject will vary.

**Requisites:** Cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**JOURN/COM ARTS 558 – PUBLIC, COMMUNITY, AND ALTERNATIVE MEDIA**

3 credits.

Examination of media outside the dominant commercial model, especially local and alternative practices, and their cultural role.

**Requisites:** Com Arts 351 is a prerequisite for this course.**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2009**JOURN/HISTORY 560 – HISTORY OF MASS COMMUNICATION**

4 credits.

Evolution of the mass media in the United States in the context of political, social, and economic change.

**Requisites:** Junior standing**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**JOURN 561 – MASS COMMUNICATION AND SOCIETY**

4 credits.

Relationships between mass communications and society; analysis and evaluation of media performance and of suggestions for change.

**Requisites:** Fall semester, Journalism Srs; spring semester, Sr st**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**JOURN 563 – LAW OF MASS COMMUNICATION**

4 credits.

Freedom of speech and press with particular emphasis on major legal issues confronting media practitioners; introduction to such areas of law as censorship, libel, invasion of privacy, access to information, regulation of electronic media and commercial speech.

**Requisites:** Junior standing**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**JOURN 564 – MEDIA AND THE CONSUMER**

4 credits.

Advertising and other mass media content from the consumer's viewpoint; consumer's need and opportunities for information, and use of opportunities; consumer evaluation of media performance, guidelines for effective use; alternative means for obtaining information; implications of consumer movement.

**Requisites:** Junior standing**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**JOURN 565 – EFFECTS OF MASS COMMUNICATION**

4 credits.

Use and effects of mass communication for individuals and societies. Course examines who is affected, what effects occur and how much, what different media content is involved and what situations make effects more or less likely.

**Requisites:** Jr st**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**JOURN 566 – COMMUNICATION AND PUBLIC OPINION**

4 credits.

The role of the mass media of communication in the formation of public opinion. Propaganda goals of government, political, economic, and social groups.

**Requisites:** Senior standing**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017



**JOURN 601 – COLLOQUIUM IN PROFESSIONAL COMMUNICATION CAREERS**

1 credit.

Weekly colloquium on current issues and career options in journalism mass communication, featuring professional speakers from academia, industry, government, and the non-profit sector.

**Requisites:** Junior standing**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**JOURN/COM ARTS/HDFS 616 – MASS MEDIA AND YOUTH**

3 credits.

Children's and adolescents' use of mass media and mass media effects on them. Particular attention is given to changes in comprehension and other cognitive activities that give insights into media use and effects.

**Requisites:** JOURN 202, COM ARTS 325, HDFS 362, ED PSYCH 320, PSYCH 460, or LSC 251 (or PSYCH 560 prior to Fall 2017)**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**JOURN/COM ARTS/LSC 617 – HEALTH COMMUNICATION IN THE INFORMATION AGE**

3 credits.

This course will examine the role of communication in health, how the revolution in information technology has affected health communication, and the assumptions about health information and communication that drive current efforts to use technologies.

**Requisites:** JOURN 565 or equivalent**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**JOURN 618 – MASS COMMUNICATION AND POLITICAL BEHAVIOR**

4 credits.

Interrelationships of news media, political campaigning, and the electorate. Impact of media coverage and persuasive appeals on image and issue voting, political participation and socialization.

**Requisites:** Jr st**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**JOURN 620 – INTERNATIONAL COMMUNICATION**

4 credits.

Historical, political, economic and cultural trends in global mass communication systems.

**Requisites:** Jr st**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**JOURN 621 – MASS COMMUNICATION IN DEVELOPING NATIONS**

4 credits.

Development, structure, and role of mass communication systems in Africa, Asia, and Latin America.

**Requisites:** Jr st**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**JOURN/ART HIST/HISTORY/L I S 650 – HISTORY OF BOOKS AND PRINT CULTURE IN EUROPE AND NORTH AMERICA**

3 credits.

History of books and print culture in the West from ancient times to the present. Focus on the influence of reading and writing on social, cultural, and intellectual life. Methodologies, theories, and sources for study of book and print culture history.

**Requisites:** Enrollment limited to graduate students in the L I S program or Juniors or Seniors**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**JOURN 658 – COMMUNICATION RESEARCH METHODS**

4 credits.

Survey of methods for investigating mass communication process and effects.

**Requisites:** Journ majors: admission to the school; non-majors: cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016

**JOURN/ASIAN AM 662 – MASS MEDIA AND MINORITIES**

4 credits.

Representations of minority groups in U.S. news and entertainment mass media. Historical, social, political, economic, and other factors influencing the mass mediated depictions of minorities.

**Requisites:** Junior standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2014**JOURN 664 – SOCIAL NETWORKS IN COMMUNICATION**

3 credits.

Examines key concepts in social network theory and develops and applies them to the field of communication. Attention is paid to the differences between social and online networks, as well as their relationships. This class will explore major concepts and questions in social network theory and analysis, including the elements that make up a network; network relationships (e.g. homophily, knowing others like ourselves); the construction of whole social networks out of dyads (two people) and triads (three); strong and weak ties; roles and positions; groups, cliques, and clusters; as well as small worlds and communities. Emphasis will be on what these concepts mean and how they work. There will be minimal introduction to technical network analysis and hands-on work.

**Requisites:** Junior standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**JOURN 666 – PROFESSIONAL RESPONSIBILITY IN MASS COMMUNICATION**

3 credits.

Explores concept of "professionalism" in journalism and strategic communication, with emphasis on societal expectations for media and ethical systems. Applies theory to specific cases.

**Requisites:** Admission to Sch of Journ Mass Comm, Sr st**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2012**JOURN 669 – LITERARY ASPECTS OF JOURNALISM**

3 credits.

Critical reading of the best reporting and writing.

**Requisites:** Jr st**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**JOURN 670 – COMMUNITY SERVICE LEARNING: TECHNOLOGY FOR SOCIAL CHANGE**

3 credits.

The course is an upper-level undergraduate/graduate service learning course that integrates the study of the social impact of new communication technologies into community engagement practices. The course will illuminate social, political, psychological, and policy implications of the adoption and use of new and emerging technologies and provide an educational opportunity to apply the knowledge and skills obtained from the class to a local, community-based collaborative project (i.e. integrated social media campaign) that aims to strengthen the community. This collaborative project is a hands-on experiment that demonstrates how to use new communication technologies for social change.

**Requisites:** Junior standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**JOURN 675 – TOPICS IN GOVERNMENT AND MASS MEDIA**

3 credits.

Analysis of political and legal relationships between mass communication and government with emphasis on current problems and issues.

**Requisites:** Senior standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**JOURN 676 – SPECIAL TOPICS IN MASS COMMUNICATION**

1-4 credits.

Analysis of a conceptual mass communication issue in more depth than is available in existing courses. Subject will vary.

**Requisites:** Cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017

**JOURN/L I S 677 – CONCEPTS AND TOOLS FOR DATA ANALYSIS AND VISUALIZATION**

3 credits.

Ours has become a data society. Like at no other time, our world—the natural world, from storm systems to diseases; governments and companies; and our conversations with friends and relatives, even our movements—is recorded in digital format. A few years ago, Google CEO Eric Schmidt famously stated that "There was 5 exabytes of information created between the dawn of civilization through 2003, but that much information is now created every 2 days, and the pace is increasing." (An exabyte is 1 trillion megabytes.) The result is that professional communicators in journalism and mass communication, as well as researchers and private firms, now literally have more data than they know what to do with. There is tremendous need across our society for people who are able to use data to investigate important questions, draw useful insights from those data, and communicate those insights to others—and also to be realistic and honest about what data can and cannot do. That is what this class is for: it is an introduction to the world of data, how data can be used to answer questions and those answers can be effectively and ethically communicated. More specifically, we will offer a combination of conceptual training, instruction in specific tools for data analysis and visualization, and the opportunity to put new skills to use in a final project. This course is intended for Juniors, Seniors and Graduate students and by instructor permission. Research methods experience preferred.

**Requisites:** Junior standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**JOURN 678 – LEGAL & ETHICAL DIMENSIONS OF EMERGING MEDIA**

3 credits.

Examines the legal ethical questions surrounding digital media and their effects on society and individuals.

**Requisites:** Junior standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**JOURN 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2017**JOURN 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2017**JOURN 691 – SENIOR THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**JOURN 692 – SENIOR THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2013**JOURN 697 – INTERNSHIP**

1-3 credits.

Students may earn no more than three internship credits as a part of their degree program.

**Requisites:** Admission to Sch of Journ and cons inst; graded on a Cr/N basis**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**JOURN 698 – DIRECTED STUDY**

1-6 credits.

Graded on Cr/N basis; requires cons inst

**Requisites:** Jr or Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2010**JOURN 699 – DIRECTED STUDY**

1-6 credits.

Graded on a lettered basis; requires cons inst

**Requisites:** Jr or Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**JOURN 800 – ADVANCED MASS MEDIA PRACTICE**

3 credits.

Advanced projects in professional practice in mass media. When course focuses on journalism, it typically emphasizes advanced projects in specialized reporting. Course is designed for professional-track M.A. students. Emphasis varies with instructor. Course may be repeated with different instructor.

**Requisites:** Professional experience or crses cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**JOURN 801 – MASS COMMUNICATION AND THE INDIVIDUAL**

3 credits.

Theory and research on individuals' use of mass communication and effects of mass communication. Topics include choice, selection and functions of mass media use, attention and cognitive processing, information effects, persuasion and emotion/involvement, and social and behavioral effects.

**Requisites:** Graduate or professional standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**JOURN 802 – MASS COMMUNICATION AND SOCIETY**

3 credits.

This course examines systematic procedures for theory building and comparison of theories of communication processes between mass media and other societal institutions and their relationships with both individuals and micro-social systems.

**Requisites:** Graduate or professional standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**JOURN 803 – MASS COMMUNICATION AND CULTURE**

3 credits.

Intensive readings focusing on the critical studies and/or cultural studies traditions in mass communication theory and research.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**JOURN/HISTORY 808 – MASS COMMUNICATION HISTORY**

3 credits.

Intensive reading and discussion designed to introduce students to literature of mass communication.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**JOURN/LSC 811 – CONCEPTUALIZATION AND DESIGN OF MASS COMMUNICATION RESEARCH**

2-3 credits.

Assists students in turning research questions into substantive research designs with understanding of the concepts involved. For most students, the final product will be a well-developed thesis or dissertation proposal.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**JOURN 812 – QUALITATIVE COMMUNICATION RESEARCH METHODS**

3 credits.

Course in research methodology designed to assist students to design research, analyze and interpret evidence, and develop a deeper appreciation of research strategies.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**JOURN 820 – MASS COMMUNICATION LAW AND POLICY**

3 credits.

Intensive reading and discussion focussing on theories of press freedom and current issues in mass communication law and policy. A bibliographic essay will be required.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**JOURN 821 – HEALTH COMMUNICATION**

3 credits.

This course considers the application and integration of theory in understanding the effects of mass media, with close attention to health communication campaign messages.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No

**JOURN 822 – GLOBAL COMMUNICATION**

3 credits.

Readings and discussion focussing on global media issues. Topics may include news flow, cultural imperialism, representations, history and political economy, globalization trends, new technologies, mass media and nation building, communication and grassroots politics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**JOURN/ENVIR ST/LSC 823 – SCIENCE AND ENVIRONMENT COMMUNICATION**

3 credits.

Course uses available scholarship and commentary to track the evolution of mass media coverage of science and the environment. Emphasis on how journalists utilize evidence, the influence of scientific and journalistic norms on stories, and the effects of mass media on science and environment messages to the public.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**JOURN 824 – RACE, ETHNICITY AND MEDIA**

3 credits.

This course examines key theoretical and empirical readings in the area of race/ethnicity and media.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**JOURN/LSC 825 – ETHICS AND COMMUNICATION**

3 credits.

Explores critical media ethics questions shaped by practices in a disruptive digital environment.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**JOURN/LSC 826 – JOURNALISM THEORY**

3 credits.

Focus on the content and purposes of journalism, explores cultural values associated with journalism, relationships between journalism and other institutions, and current issues facing journalists at a time when the profession faces many challenges.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**JOURN/POLI SCI 829 – POLITICAL COMMUNICATION**

3 credits.

This course examines the role of communication in American politics. Topics covered include the communication of politics (e.g., communication by politics elites, effects of mass media and interpersonal communication on political attitudes) as well as the politics of communications (regulation of political communication, policy issues, etc.).

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**JOURN/COM ARTS/LSC 831 – PSYCHOLOGY OF ENTERTAINMENT MEDIA**

3 credits.

This course is designed to provide an in-depth look into entertainment media, including its effects on individuals, social groups, and society. The focus on entertainment content is across platforms - from "mass" to social media. Emphasis will be paid to psychological, individual-level effects.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**JOURN/LSC 833 – TECHNOLOGY AND SOCIETY**

3 credits.

This seminar considers the effects of new communication technologies on everyday life and political mobilization.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**JOURN/LSC 840 – STRATEGIC MASS COMMUNICATION**

3 credits.

Intensive readings focusing on theories, strategies, and methods involved in the strategic uses of mass communication. The course may focus on macro or micro issues.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2008**JOURN/LSC 880 – TOPICS IN MASS COMMUNICATION**

3 credits.

In-depth investigation of a specific topic in mass communication.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**JOURN/LSC 901 – COLLOQUIUM IN MASS COMMUNICATION**

1 credit.

May be repeated to a maximum of 3 credits. Colloquium series for communication graduate students. Course will offer research presentations by mass communication scholars, and is designed to acquaint graduate students with theoretical and methodological approaches to the study of communication.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**JOURN 902 – GRADUATE TEACHING COLLOQUIUM**

1 credit.

Colloquium series for graduate students in fields related to communication and information studies. Course meets once per week for a teaching presentation by a guest faculty or staff member on various theoretical and practical approaches to teaching and learning in the communication and information fields.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**JOURN/HISTORY 919 – SEMINAR-HISTORY OF MASS COMMUNICATION**

3 credits.

Seminar in the history of mass communication in which students are expected to produce original research based on primary documents.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**JOURN 990 – THESIS**

1-9 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**JOURN 999 – INDEPENDENT RESEARCH PROBLEMS**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**KINESIOLOGY (KINES)****KINES 100 – EXERCISE, NUTRITION, AND HEALTH**

2 credits.

Guidelines and assessment methods for fitness and nutrition. Motivation, adherence and stress-reduction techniques discussed. Lecture-demonstration concerning effects of exercise and nutrition on health and well-being. Team-taught by faculty and staff with expertise in exercise physiology, nutrition, and psychology.

**Requisites:** Open to Fr**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**KINES 104 – AQUATICS**

1 credit.

Attainment and maintenance of a high degree of personal efficiency in swimming strokes and proficiency in fundamental aquatic skills, and an understanding of the fundamental physiological, mechanical and kinesiological principles as they relate to aquatic performance.

**Requisites:** Swimming I or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2016**KINES 115 – PHYSIOLOGY OF HUMAN PERFORMANCE**

3 credits.

Humans are capable of achieving astonishing performances in athletics, in work and in other extraordinary situations. These extraordinary performances often provide important insights into physiological processes and their limits. This course integrates information from biology, chemistry, psychology, mechanics, etc., to understand the factors that determine and limit human performance from the molecular level all the way up to whole body movement. The emphasis in the class is on using case studies to investigate physiological processes underlying movement, exercise, and performance.

**Requisites:** None**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**KINES 116 – FIRST AID AND BASIC LIFE SUPPORT**

2 credits.

Techniques and procedures to deal effectively with common emergencies. Includes training in airway obstruction, cardiopulmonary resuscitation, automated external defibrillation, injuries, and medical emergencies.

**Requisites:** Open to Freshmen all students-not to count credit towards degree for LS students**Repeatable for Credit:** No**Last Taught:** Fall 2017



**KINES 119 – INTRODUCTION TO KINESIOLOGY**

2 credits.

Introduces students to the field of kinesiology and the Department of Kinesiology at the University of Wisconsin-Madison. Introductory material about physical activity and health will be provided, and career opportunities in kinesiology will be discussed.

**Requisites:** Open to All Undergrads

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 121 – FOUNDATIONS OF PHYSICAL EDUCATION**

2 credits.

Introduction to physical education teaching, movement education, and an operational understanding of the scientific study of human movement.

Lecture and lab. Open to Freshmen

**Requisites:** PEC, PED or consent of instructor.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 123 – LIVING WELL: LIFESTYLE BALANCE AND HEALTH PROMOTION FOR COLLEGE STUDENTS**

2 credits.

This course is designed to promote student's wellness as they manage college life and its demands. It examines health and well being related to college students' time-use patterns; balance among daily activities; daily routines and habits; circadian rhythms, energy cycles and sleep; self-care activities; and stress management. Students in this course apply course material to their own lives by participating in a self-analysis of their lifestyle, participating in mindfulness and other wellness activities, and engaging in a lifestyle balance project.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 125 – ADAPTED FITNESS AND PERSONAL TRAINING**

1 credit.

Fitness class for developing individualized personal goals.

Accommodates persons having temporary or permanent disability.

Alternative to dropping from other program classes due to injury or other medical reason.

**Requisites:** Open to Freshmen

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 126 – GYMNASTICS FOR TEACHING**

2 credits.

Teaching progressions, spotting, and safety in men's and women's gymnastics events and equipment.

**Requisites:** KINES 121

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**KINES 127 – INTRODUCTION TO ATHLETIC TRAINING**

2 credits.

An introductory course covering issues and basic concepts regarding prevention, management, and treatment of athletic injuries. The role of the athletic trainer in the sports medicine field is emphasized.

**Requisites:** PKN or PED classification, or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 129 – INTRODUCTION TO YOGA PRACTICE**

1 credit.

An introduction to yoga practice, philosophy, history, and traditions.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**KINES 134 – MOVEMENT TECHNIQUES FOR STRESS MANAGEMENT**

1 credit.

Use of movement strategies to develop skills for reducing tensions associated with stress. Strategies include neuromuscular relaxation, flexibility exercises and movement awareness techniques.

**Requisites:** Open to Freshmen

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**KINES 140 – SCIENCE AND PRACTICE OF RESISTANCE TRAINING**

2 credits.

Lectures and demonstrations on the principles of resistance training and associated physiological effects designed for practitioners who wish to gain a detailed understanding of the science of resistance training.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 141 – THE SCIENCE & PRACTICE OF MARATHON/DISTANCE RUNNING**

2 credits.

Advanced running course. Principles of long distance/marathon running are discussed and applied; provides a foundation for high level aerobic fitness. Lecture/discussion in areas of biomechanics, nutrition, training principles and programs, physiology, and running performance. Tempo/endurance featured throughout course. This course is intended for students who run 15 + miles/week.

**Requisites:** None

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2016

**KINES 145 – CHOOSING TO MOVE: CONSTRUCTING AN ACTIVE LIFESTYLE**

2 credits.

Will promote physical activity at a level to achieve health benefits, particularly in students who currently are insufficiently active (less than 150 minutes each week of moderate intensity physical activity). Students will apply course materials (e.g., behavior change strategies) to their own lives by completing self-analysis of their physical activity levels and then developing a physical activity plan to increase current physical activity levels, as well as a plan to maintain the activity after the course has ended.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**KINES 147 – TAI CHI CH'UAN**

1 credit.

Learn and practice 24-movement Yang Style Tai Chi Form and Animal Frolic Qi Gong Form.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2015**KINES 197 – TECHNIQUES IN ATHLETIC TRAINING**

1 credit.

An applied clinical approach to basic skills commonly used in the field of athletic training. Designed for students interested in athletic training, and an appropriate elective for those who plan to teach or coach.

**Requisites:** PKN or PED classification, or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2017**KINES 200 – INTRODUCTORY NEUROSCIENCE**

4 credits.

Entry-level course provides a systematic introduction to the mammalian nervous system, with emphasis on the structure and function of the human brain. Topics include the function of nerve cells, sensory systems, control of movement, learning and memory, and diseases of the nervous system. The foundational knowledge covered in this course serves students interested in health sciences majors, as well as non-science students interested in neuroscience and its relation to human health, wellness, and disease.

**Requisites:** None**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**KINES 227 – INTRODUCTION TO CLINICAL ANATOMY OF HUMAN MOVEMENT**

2 credits.

Designed to provide students with a foundational knowledge in musculoskeletal anatomy and anatomical considerations related to human movement and physical activity.

**Requisites:** Students must have completed Kinesiology 127 or be concurrently enrolled in Kinesiology 127.**Repeatable for Credit:** No**Last Taught:** Spring 2017**KINES 235 – HUMAN PHYSIOLOGY AND HEALTH**

4 credits.

In this introductory course students learn basic physiological concepts, apply them to understand human health and disease, and link them to broader core concepts in biology. Each student completes a project in which they apply their conceptual understanding of general biology and physiology to investigate and create informational materials for the public about a disease or health promotion strategy. The foundational knowledge covered in this course serves students interested in health sciences majors, as well as non-science students interested in life-long health.

**Requisites:** None**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**KINES 240 – METHODS OF TEACHING INVASION GAMES AND SPORTS**

1 credit.

An examination of differences and similarities of various invasion games. Sequencing of skills and development of concepts to produce effective performance. Instruction in the teaching of invasion games to incorporate individuals of all ability levels.

**Requisites:** Enrollment limited to students with the KNS or PED Academic Program.**Repeatable for Credit:** No**Last Taught:** Spring 2015**KINES/E ASIAN 277 – KENDO: INTEGRATION OF MARTIAL ARTS AND LIBERAL ARTS**

2 credits.

Kendo practice (martial art) supplemented by lecture describing its historical roots and philosophical background.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**KINES 300 – PRACTICUM IN KINESIOLOGY**

1-3 credits.

Supervised experience in a specialized area of physical education.

**Requisites:** Jr st KINES 335 or 318 or 314, kines major or cons inst

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**KINES 301 – ADVANCED TECHNIQUES IN ATHLETIC TRAINING**

2 credits.

A course to provide the future athletic training professional with a foundation in advanced athletic training techniques. Sample topics include: injury prevention, emergency care, orthopedic appliance applications, protective equipment, environmental considerations, and computer applications.

**Requisites:** KINES 127, 197, acceptance into athletic training clinical program, or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 312 – TECHNOLOGY FOR PHYSICAL ACTIVITY AND HEALTH PROFESSIONALS**

2 credits.

Designed to provide students with creative technology strategies in the fields of school wellness education, physical activity, and fitness management. Students will build skills for using widely available technology resources to enhance instruction, assessment, motivation, communication, and advocacy in health and fitness settings. Skill-specific units present experiential assignments that increase learner confidence. Each unit produces print or digital materials for practical professional use with an emphasis on innovation.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**KINES 314 – PHYSIOLOGY OF EXERCISE**

4 credits.

Fundamental knowledge about, and appreciation for, the adaptability of human physiological systems in meeting a range of exercise demands.

**Requisites:** College chem physiol; major in kinesiology or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 315 – ASSESSMENT AND RESEARCH IN PHYSICAL ACTIVITY PEDAGOGY**

3 credits.

Course topics and laboratory experiences will focus on parameters that are measured in physical activity pedagogy; instruments for measuring physical activity, health related fitness, knowledge, and psychological characteristics; concepts of assessment and research, basic statistical methods; and action research.

**Requisites:** MATH 112 or exempt status; major in kinesiology or cons inst

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**KINES 316 – ADAPTED PHYSICAL ACTIVITY**

3 credits.

An understanding of foundations, assessment and pedagogy for individuals with disabilities in a variety of physical activity settings. Emphasis on individual differences, life-span, and self-actualization.

**Requisites:** Anat 329 or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**KINES 317 – EVALUATION AND DIAGNOSIS OF ORTHOPEDIC CONDITIONS**

4 credits.

The evaluative skills and knowledge needed for minimum competency in the recognition, evaluation, and diagnosis of orthopedic conditions common to active populations.

**Requisites:** Declared in Athletic Training program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 318 – BIOMECHANICS OF HUMAN MOVEMENT**

3 credits.

Analysis of human action through the application of mechanical principles.

**Requisites:** ANATOMY/KINES 328 329 and MATH 112; major in kinesiology, or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 323 – PHYSICAL EDUCATION FOR ELEMENTARY SCHOOL CHILDREN**

3 credits.

Introduction to program development in physical education for elementary education majors.

**Requisites:** El Ed majors or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**KINES 325 – GROUP DEVELOPMENT AND BEHAVIOR MANAGEMENT**

3 credits.

Provide students with opportunities and experiences to learn and participate in the development of groups. Provide students with strategies and experiences in the management of behaviors and techniques to maintain a safe and productive teaching environment.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**KINES 327 – CURRENT TOPICS IN OUTDOOR PURSUITS**

1 credit.

Introduce students to several outdoor activities to enable the teaching of these topics.

**Requisites:** Kinesiology 370 or consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**KINES/ANATOMY 328 – HUMAN ANATOMY**

3 credits.

Lectures. Structure of the human body.

**Requisites:** Admission to professional curric in nursing, pre-nursing, or pre-physician assistant program**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**KINES/ANATOMY 329 – HUMAN ANATOMY-KINESIOLOGY**

2 credits.

Required for dance-related majors. Open to Fr

**Requisites:** Kinesiology major; kinesiology majors must take ANATOMY/ KINES 328 prior to or concurrent with ANATOMY/KINES 329.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**KINES 330 – RESEARCH IN KINESIOLOGY**

2 credits.

The research process as applied in kinesiology, including hypothesis development, ethical issues, study design, measurement and statistical concepts, and presentation of results. Includes exposure to current research within the Department of Kinesiology.

**Requisites:** MATH 112 or exemption; Stats 371 or PSYCH 210 or equivalent; kinesiology major or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**KINES 332 – SPECIALIZED TEACHING EXPERIENCE**

1 credit.

**Requisites:** KINES 361, Curric 378, PEC designation or cons inst; current CPR First Aid certification**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2013**KINES 335 – METHODS OF TEACHING ELEMENTARY PHYSICAL EDUCATION**

3 credits.

Theory, organization, and teaching; small group teaching in elementary schools.

**Requisites:** KINES 360 Curric 378; PEC designation or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2014**KINES 337 – HUMAN ANATOMY**

3 credits.

Uses a regional approach to provide a foundation of knowledge in human anatomy. Units cover an introduction to anatomical systems; back and limbs; thorax, abdomen, and pelvis; and head and neck.

**Requisites:** Not open to first-year students**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**KINES 338 – HUMAN ANATOMY LABORATORY**

2 credits.

Takes a regional approach to cover the gross anatomy of the human body in four units: introduction to anatomical systems; back and limbs; thorax, abdomen, and pelvis; and head and neck. A variety of tools, including interactive software, models, and specimens, will be used.

**Requisites:** KINES 337, ANATOMY/KINES/ANATOMY 328 or concurrent enrollment**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**KINES 350 – INTRODUCTION TO EXERCISE PSYCHOLOGY**

3 credits.

Emphasis on the psychological foundations of exercise with motivational techniques, perception of effort, personality dynamics, and mental health serving as the focal points.

**Requisites:** Junior standing**Repeatable for Credit:** No**Last Taught:** Fall 2017

**KINES 353 – HEALTH AND PHYSICAL EDUCATION IN A MULTICULTURAL SOCIETY**

2 credits.

Familiarize students with perspectives of culture and diversity, the concepts and importance of culturally responsive teaching, and the Act 31 requirement for teacher education students within a health and physical education/activity context. Students will have opportunities to incorporate concepts from class into their Multicultural Field Experience.

**Requisites:** Junior standing and declared in Physical Education, Kinesiology or Athletic Training program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 355 – SOCIO-CULTURAL ASPECTS OF PHYSICAL ACTIVITY**

3 credits.

An introduction to the philosophy of physical activity/education, history of physical activity/education and sport, and sociology of sport. Successful completion of or exemption from Communication Part A requirement. Courses designated as satisfying the Part A requirement cannot be used to satisfy the Communication Part B requirement.

**Requisites:** Kinesiology major and Junior standing or consent of instructor.

**Course Designation:** Gen Ed - Communication Part B

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 357 – THERAPEUTIC STRATEGIES IN ATHLETIC TRAINING I**

4 credits.

A study of therapeutic intervention strategies used by athletic trainers. Evidence guided principles and clinical applications of therapeutic exercise, use of physical agents, indications and contra-indications, program design, progression, and standard documentation.

**Requisites:** KINES 317 or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**KINES 358 – THERAPEUTIC STRATEGIES IN ATHLETIC TRAINING II**

4 credits.

A study of therapeutic intervention strategies used by athletic trainers. Evidence guided principles and clinical applications of therapeutic exercise, use of physical agents, indications and contra-indications, program design, progression, and standard documentation. A continuation of KINES 357.

**Requisites:** KINES 357

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 360 – LIFESPAN MOTOR DEVELOPMENT**

3 credits.

(For majors) Motor development in individuals at various points in the life span; use of such information as a framework for assessing levels of motor development. How to observe movement, interpreting and using such information as one important basis for planning what and how to teach.

**Requisites:** Major in kinesiology or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 361 – MOTOR LEARNING AND PERFORMANCE**

3 credits.

A basic and up-to-date view of the major processes and mechanisms underlying the performance and learning of motor skills. Principles in motor learning and control are systematically introduced to produce a meaningful conceptual framework.

**Requisites:** PSYCH 202 or Ed Psych 331; major in kinesiology or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 364 – ASSESSMENT AND PROGRAMMING IN ADAPTED PHYSICAL EDUCATION**

3 credits.

Physical education methods, programs and assessment procedures related to individuals with a variety of disabilities.

**Requisites:** KINES 316 315 or equiv

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 365 – PRACTICUM: ADAPTED PHYSICAL EDUCATION**

2 credits.

A practicum experience for individuals who are emphasizing the area of Physical Education/Special Populations. Six hours per week working with individuals who have disabling conditions.

**Requisites:** Cons inst

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**KINES 370 – PLANNING, TEACHING AND ASSESSMENT IN PHYSICAL EDUCATION**

3 credits.

Prepare the kinesiology student in organizing, planning, assessing and implementing developmentally appropriate learning experiences aligned with local, state, and national standards to address the diverse needs of all students.

**Requisites:** KINES 360 or concurrent registration

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**KINES 371 – METHODS OF TEACHING PK-12 DANCE AND GYMNASTICS**  
3 credits.

Methods of instruction in movement concepts, educational dance and gymnastics. Students will gain practice in planning, teaching, and assessing home school students, as well as practice in assessing their own teaching. Students will apply concepts presented in KINES 370 Planning and Teaching Physical Education.

**Requisites:** Successful completion (or concurrent) of Kinesiology 370, DANCE 2, DANCE 205 Kinesiology major, or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 372 – METHODS OF TEACHING PK-12 EDUCATIONAL GAMES AND FITNESS**  
3 credits.

Address methods of instruction in motor skills, educational games and fitness. Students will gain practice in planning, teaching, and assessing public school students, as well as practice in assessing their own teaching. Students will apply concepts presented in KINES 370 Planning and Teaching Physical Education.

**Requisites:** Successful completion of Kinesiology 370, Kinesiology major, or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**KINES 373 – METHODS OF TEACHING SECONDARY SPORT CONCEPTS AND SKILLS**  
3 credits.

Addresses methods of instruction in sport tactical concepts and skills. Students will gain practice in planning, teaching, and assessing secondary school students, as well as practice in assessing their own teaching. The goal is for students to develop into proficient teachers. Students will apply concepts presented in Kinesiology 370 Planning and Teaching Physical Education.

**Requisites:** Successful completion of Kinesiology 370, Kinesiology major and junior standing, or consent of instructor.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 375 – PRACTICUM IN PHYSICAL EDUCATION**  
3 credits.

Provide opportunities for the physical education student to develop competencies in the teaching skills necessary to provide quality Physical Education to children and youth. Students will receive individualized feedback about their performance from the cooperating teacher and the university supervisor. The course will also provide a forum for students to learn from their peers through discussions, sharing their experiences and knowledge gained from their practicum placement.

**Requisites:** KINES 371, KINES 372, KINES 373

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 390 – PRINCIPLES OF EXERCISE LEADERSHIP**  
2 credits.

Introduction to the design of individual and group exercise programs utilized in fitness leadership roles. Supervised practical experience will be provided in class to assist the development of student leadership skills.

**Requisites:** KINES 314 Anat 329, kines major or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 399 – INDEPENDENT STUDY**  
1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**KINES 400 – ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING PROGRAMS**  
3 credits.

Principles of organizational theory and administrative practice as they apply to athletic training and sports medicine programs. Emphasis on developing knowledge and skills needed for entry-level professionals in the athletic training field.

**Requisites:** Students must have completed KINES 358.

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**KINES 412 – ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION**  
2 credits.

The presentation of materials and depth study of the organization and administration of a sound program of physical education, the knowledge of which is mandatory for all physical education teachers.

**Requisites:** Jr st or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 417 – ADVANCED CLINICAL ASSESSMENT TECHNIQUES IN ATHLETIC TRAINING**  
2 credits.

Designed to provide students with knowledge and skills in advanced clinical assessment techniques used in the evaluation of injuries, illnesses, and conditions found in physically active populations.

**Requisites:** KINES 317

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 427 – FITNESS TESTING AND EXERCISE PRESCRIPTION**  
3 credits.

Fitness assessment and exercise prescription principles are applied to the health-related fitness components through discussion and lab activities.

**Requisites:** 762-335 Human Physiology

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**KINES 450 – CLINICAL FIELD EXPERIENCE IN ATHLETIC TRAINING**

3 credits.

A clinical field placement course for students in the athletic training professional preparation program. Clinical placements under the direction of an AT Program Clinical Preceptor are offered in a variety of clinical settings including intercollegiate, secondary school, and private clinical settings.

**Requisites:** Declared in Athletic Training**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**KINES 457 – MEDICAL PROBLEMS OF EXERCISE AND SPORTS**

3 credits.

Responses of the human body to exercise and sports with specific discussion of acute and chronic medical problems which may affect performance. Emphasis on cardiopulmonary, metabolic, nutritional, fluid-electrolyte, heat-temperature regulation.

**Requisites:** Athletic training area of conc or cons inst**Course Designation:** Gen Ed - Communication Part B**Repeatable for Credit:** No**Last Taught:** Spring 2017**KINES 462 – METHODS OF TEACHING SECONDARY PHYSICAL EDUCATION**

3 credits.

Designed to help students understand teaching methods at the secondary level. There will be opportunities to visit middle and high schools for observation and practice teaching.

**Requisites:** KINES 318 or con reg; KINES 361; Curric 378; PEC classification or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2015**KINES 475 – SEMINAR IN ATHLETIC TRAINING**

1 credit.

An advanced undergraduate seminar for students in the athletic training professional preparation program. Research trends, evidence-based clinical practice, transition to practice, and current issues in the field of athletic training are emphasized.

**Requisites:** Enrolled in the BS-Athletic Training program.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, for 2 number of completions**Last Taught:** Fall 2017**KINES/CURRIC 478 – ELEMENTARY SCHOOL PHYSICAL EDUCATION STUDENT TEACHING**

2-8 credits.

**Requisites:** Adv reg in stdt tchg ofc, 109 Educ**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** No**Last Taught:** Spring 2017**KINES/CURRIC 479 – MIDDLE SCHOOL OR HIGH SCHOOL PHYSICAL EDUCATION STUDENT TEACHING**

2-8 credits.

**Requisites:** Adv reg in stdt tchg ofc, 109 Educ**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** No**Last Taught:** Spring 2017**KINES/CURRIC 501 – HEALTH INFORMATION FOR TEACHERS**

3 credits.

Basic scientific health knowledge and its application to the total school program.

**Requisites:** Junior standing or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**KINES 508 – WORKSHOP IN KINESIOLOGY**

1-3 credits.

**Requisites:** Grad st or cons inst**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**KINES 516 – PHYSICAL ACTIVITY FOR DIVERSE ABILITIES**

3 credits.

Students will develop knowledge and skills necessary to provide meaningful and inclusive physical activity for diverse abilities across the life-span.

**Requisites:** ANATOMY/KINES 328, major in Kinesiology, or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**KINES 521 – PHYSICAL ACTIVITY AND HEALTH**

3 credits.

Research evidence regarding how physical activity and fitness are related to health (e.g., during pregnancy and aging) and disease, especially cardiovascular diseases, obesity, diabetes, osteoporosis, and cancer. Application and communication of knowledge in practical situations.

**Requisites:** KINES 314 or cons inst**Course Designation:** Gen Ed - Communication Part B

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**KINES/MEDICINE/NURSING 523 – CLINICAL EXERCISE TESTING & TRAINING**

3 credits.

Physiological basis and methods of human exercise testing and training. Topics: clinical exercise physiology, exercise testing protocols, cardiopulmonary monitoring, basic ECG interpretation, exercise prescription.

**Requisites:** KINES 314 or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2017

**KINES/NUTR SCI 525 – NUTRITION IN PHYSICAL ACTIVITY AND HEALTH**

3 credits.

The purpose of this course is to provide undergraduate and graduate students with both scientific knowledge and application of nutrition related to exercise, health, and sports.

**Requisites:** Admission to Kinesiology(Athletic Training, Exercise and Movement Science, or Physical Education Teacher Education) or Nutritional Science major and Physiology 335

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 527 – PRINCIPLES OF STRENGTH AND CONDITIONING**

3 credits.

Present/discuss the scientific basis and current practices of strength and conditioning for athletic performance. Training program design and training methods, for performance enhancement, related to the areas of strength, power, speed, and endurance.

**Requisites:** Admission to Athletic Training, Exercise and Movement Science or Physical Education Teacher Preparation Program, 742-314 - or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 531 – NEURAL CONTROL OF MOVEMENT**

3 credits.

Intermediate course on neuronal circuits and neurophysiological mechanisms involved in the control of human motor behavior. Including discussion of: 1) sensorimotor integration, 2) interactions between spinal, brainstem, and cerebral cortical levels of control, and 3) how motor control knowledge is created and evaluated.

**Requisites:** College anatomy and physiology; major in kinesiology or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**KINES/CURRIC/ELPA 541 – ORGANIZATION AND ADMINISTRATION OF SCHOOL HEALTH PROGRAMS**

3 credits.

Theory, philosophy, patterns, and responsibilities.

**Requisites:** CURRIC/KINES 501; admission to certificate program in elementary or secondary education or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**KINES/CURRIC 542 – TEACHER EDUCATION ABOUT ALCOHOL AND OTHER DRUGS**

3 credits.

Social and cultural factors which influence the use and abuse of alcohol and other selected psychoactive drugs. Emphasis on educational concepts and processes important for instructional planning, curriculum strategies, value clarification, evaluation of learning, and countermeasure research developments.

**Requisites:** CURRIC/KINES 501; admission to certificate program in elementary or secondary education or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**KINES/CURRIC 561 – TEACHER EDUCATION IN HUMAN SEXUALITY**

3 credits.

Student teachers plan educational experiences through which children and youth can learn about human potential in sexuality.

**Requisites:** CURRIC/KINES 501; admission to certificate program in elementary or secondary education or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES/CURRIC 567 – ISSUES, MATERIALS AND METHODS IN HEALTH EDUCATION**

3 credits.

Principles, materials, and methods.

**Requisites:** CURRIC/KINES 501, 541, 542, 561 or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 590 – CURRENT TOPICS IN KINESIOLOGY**

1-3 credits.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**KINES 600 – ADVANCED EXERCISE PSYCHOLOGY**

3 credits.

Exercise and performance examined from the standpoint of motivation, personality dynamics, psychophysics, mental health, social psychology, and behavioral medicine.

**Requisites:** Graduate standing

**Course Designation:** Gen Ed - Communication Part B

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 614 – BIOLOGICAL FACTORS INFLUENCING EXERCISE PERFORMANCE**

3 credits.

Exploration of selected factors relative to performance and exercise physiology : e.g., ergogenic aids, nutritional factors, gender and age of the athlete, and long term competitive events.

**Requisites:** KINES 314, kines major or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**KINES 615 – LABORATORY TECHNIQUES IN EXERCISE PHYSIOLOGY**  
2 credits.

Laboratory procedures and skills commonly used in exercise physiology.

**Requisites:** KINES 314, kines major or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**KINES 618 – BIOMECHANICS**

2-3 credits.

Biomechanics of human movement and skill with emphasis on kinematics and kinetics.

**Requisites:** Kines 218, Anat 329, or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**KINES 690 – INTERNSHIP IN KINESIOLOGY**

3-6 credits.

Integrated learning from didactic courses in an approved supervisor setting such as a research laboratory or a health and fitness facility. Students will assume responsibilities that are consistent with their level of professional development and learning experiences.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, for 4 number of completions

**Last Taught:** Summer 2017

**KINES 699 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Kines major Sr st cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**KINES 700 – PSYCHOLOGICAL EFFECTS OF EXERCISE**

3 credits.

Consequences of involvement in acute and chronic exercise on selected psychological states such as anxiety, depression, hostility, and self-esteem.

**Requisites:** KINES 600 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**KINES 713 – NEURAL BASIS OF NORMAL AND PATHOLOGICAL MOVEMENT**

3 credits.

In-depth look at anatomic, neurophysiological, behavioral, and clinical aspects of motor control under normal and pathological conditions.

Movement disorders include sensory neuropathy, cerebral cortical or brain stem stroke, basal ganglia dysfunction, and cerebellar disease.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**KINES 721 – NEURAL BASIS FOR MOVEMENT**

3 credits.

How the central nervous system organizes skilled human performance.

Evolution of neuromuscular mechanisms, subserving skills, and the causes and limitations of movement at high speeds and high levels of force.

**Requisites:** Neuroanatomy or neurophysiology or physiological psychology

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES/PHYSIOL 773 – CARDIORESPIRATORY ADAPTIONS TO ENVIRONMENT AND EXERCISE**

3 credits.

Examination of the effects of acute and chronic exercise and exposure to hypo- and hyperbaric environments on physiological responses; mechanisms underlying these responses.

**Requisites:** Physiol 720 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**KINES 774 – METABOLIC RESPONSES TO EXERCISE AND ENVIRONMENTAL STRESS**

2 credits.

Examination of the metabolic and biochemical responses to acute and chronic exercise and environmental stress. Emphasis placed on the mechanisms underlying these responses.

**Requisites:** Physiol 720 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**KINES/NEUROL 779 – HUMAN MUSCLE FUNCTION IN HEALTH AND DISEASE**

2 credits.

Multidisciplinary seminar on human muscle function in health and disease. The course is geared toward advanced undergraduate and graduate students in kinesiology, physical and occupational therapy, motor control and behavior, neurophysiology resident in neurology and other related allied health professionals.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**KINES 785 – HUMAN OCCUPATION AND HEALTH**

2-3 credits.

This course focuses on the nature of human occupation (everyday purposeful activity) and its relationship to well-being and health. Theories of occupation and health are critically examined.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**KINES/POP HLTH 791 – PHYSICAL ACTIVITY EPIDEMIOLOGY**

3 credits.

Recommendations for and surveillance of physical activity in the U.S., and associations with health and disease at the population level. Emphasis on measurement techniques, study design and research considerations.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**KINES 800 – SEMINAR-EXERCISE PSYCHOLOGY**

2 credits.

Research oriented developments in exercise psychology.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**KINES 861 – PRINCIPLES OF MOTOR CONTROL AND LEARNING**

3 credits.

Theories and experimental findings in motor control, acquisition and retention of motor behavior. Topics: attention, models of motor control, kinesthesia, learning, information processing, memory, transfer, feedback, age and gender differences.

**Requisites:** KINES 361 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**KINES 885 – SEMINAR IN OCCUPATION AND HEALTH**

1 credit.

This seminar will focus on current theoretical and methodological issues and problems within the study of human occupation and health.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**KINES 900 – SEMINAR IN KINESIOLOGY**

1 credit.

This course provides a forum for students, faculty and staff from the department of kinesiology to present and discuss research and current issues related to the field of kinesiology.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**KINES 951 – SEMINAR-BIOMECHANICS**

2 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**KINES 953 – HUMAN BIODYNAMICS SEMINAR**

1 credit.

**Requisites:** Kines 753 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**KINES/POP HLTH 955 – SEMINAR - PHYSICAL ACTIVITY EPIDEMIOLOGY**

1 credit.

Current research developments in physical activity epidemiology.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**KINES 961 – SEMINAR IN MOTOR CONTROL AND LEARNING**

2 credits.

**Requisites:** KINES 861 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2013

**KINES 990 – RESEARCH OR THESIS**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**KINES 991 – RESEARCH IN PHYSICAL ACTIVITY- THEORY AND DESIGN**

3 credits.

Basic principles of scientific inquiry and their application to the study of physical activity.

**Requisites:** STAT 301, or Ed Psych 561, or equiv, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**KINES 999 – INDEPENDENT READING**

1-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LA FOLLETTE SCHOOL OF PUBLIC AFFAIRS (PUB AFFR)****PUB AFFR/POLI SCI 419 – ADMINISTRATIVE LAW**

3-4 credits.

Delegation of powers, elements of fair administrative procedure, judicial control over administrative determination. Not open to students with credit for POLI SCI 420 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 104, 184, or POLI SCI/LEGAL ST/POLI SCI 217).**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**PUB AFFR 520 – INEQUALITY, RACE AND PUBLIC POLICY**

3 credits.

Explore the impact of public policies and programs on the distribution of income, wealth and opportunity in the United States. Examines inequalities across various social dimensions with a focus on disparities across racial and ethnic groups. It will begin with an introduction to key concepts in the measurement of inequality and poverty and an overview of recent trends. We will systematically examine how public policy shapes inequality across a range of topical areas including labor markets, education, taxation, health, housing and criminal justice.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**PUB AFFR/ECON/POP HLTH 548 – THE ECONOMICS OF HEALTH CARE**

3-4 credits.

Analysis of the health care industry. Markets for hospitals and physicians' care, markets for health manpower, and the role of health insurance.

**Requisites:** ECON 301, ECON 311, or PUB AFFR 880**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PUB AFFR/CIV ENGR 694 – MANAGEMENT OF CIVIL INFRASTRUCTURE SYSTEMS**

3 credits.

Comprehensive systems approach to civil infrastructure and asset management with emphasis on transportation facilities. Social, political, economic factors that influence transportation planning, design, construction, maintenance and operation. Needs assessment, information management, performance measurement, life cycle cost and benefits analysis, prioritization and optimization, budgeting and finance.

**Requisites:** Grad st or cons inst, Civ Engr 494 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015



**PUB AFFR/HISTORY/POLI SCI 724 – THE POLITICS OF PERSUASION: SOFT POWER IN EUROPE AND THE U.S.**

1-3 credits.

How powerful is non-military power? What are its vectors and its limits? International relations theorists have defined soft power as "the ability to get what you want through attraction rather than coercion." This graduate seminar will put this notion to the test. We will investigate how elites, interest groups, religious bodies, and nation-states seek to exercise hegemony in the international order through non-violent means. How was "soft power" implemented on the ground in the 20th century- and how did its use transform international relations? To probe these questions, we will focus on a series of case studies in European and U.S. international history. Topics covered include the expansion of capitalism and consumer culture; the globalization of international legal instruments and human rights claims; and de-secularization, religious radicalism, and counter-insurgency. In the process of analyzing our case studies, we will refine our analytical vocabulary. Drawing on recent work in international relations, political theory, and international history, we will probe the meaning and utility of concepts like normative power, hegemony, cultural capital, and public diplomacy.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**PUB AFFR/ECON/URB R PL 734 – REGIONAL ECONOMIC PROBLEM ANALYSIS**

3 credits.

Examination of major theories of regional economic development, with special emphasis upon the evolution and amelioration of regional economic problems. Selected techniques of regional analysis, including economic base multipliers, input/output models, and shift-share analysis are used in the context of setting regional development goals.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2011**PUB AFFR/ED POL/ELPA 765 – ISSUES IN EDUCATIONAL POLICY ANALYSIS**

3 credits.

Theory, research, and practical experience in educational policy analysis, including the social construction of policy problems in education; the design, implementation, and evaluation of policy responses; and the practical and ethical dilemmas of the policy analyst.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PUB AFFR/ED POL/ELPA 795 – ECONOMICS OF EDUCATION**

3 credits.

Shows how basic economic concepts are applied to the study of education policy and what economic research has concluded about the efficiency of various types of education systems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2011**PUB AFFR 799 – INDEPENDENT READING**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PUB AFFR 800 – PUBLIC AFFAIRS PROFESSIONAL DEVELOPMENT WORKSHOP**

1 credit.

This public affairs career development seminar includes sessions on professional writing, presentations, and job search skills training for students interested in finding jobs. A significant element of the seminar will be presentations from practitioners from the public, private and non-profit sectors.

**Requisites:** La Follette student**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PUB AFFR 802 – PUBLIC AFFAIRS SEMINAR SERIES**

1-2 credits.

This course provides an opportunity to cross disciplinary boundaries to review and discuss the latest research by top public management, policy, and poverty scholars from on and off campus. The seminar series provides new and unpublished research on these issues as well as practitioner insight.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**PUB AFFR/ED POL/GEN&WS 805 – GENDER ISSUES IN INTERNATIONAL EDUCATIONAL POLICY**

3 credits.

Exploration and analysis of recent debates related to gender issues in international educational policy, including the intersection of education and demographic processes, the play of history and culture, and the social construction of gender.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2013



**PUB AFFR/ENVIR ST/URB R PL 809 – INTRODUCTION TO ENERGY ANALYSIS AND POLICY**

3 credits.

Interdisciplinary seminar for the Energy Analysis and Policy Curriculum. Strategy and policy problems in energy policy, both national and international.

**Requisites:** Grad st admission to Energy Anal and Policy curric or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PUB AFFR/ENVIR ST/URB R PL 810 – ENERGY ANALYSIS SEMINAR**

1-3 credits.

Interdisciplinary seminar for the Energy Analysis and Policy Curriculum. Quantitative energy content and energy flows as an aid to problem analysis and policy formulation.

**Requisites:** Grad st admission to Energy Anal and Policy Curric or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**PUB AFFR 818 – INTRODUCTION TO STATISTICAL METHODS FOR PUBLIC POLICY ANALYSIS**

3 credits.

This course provides an introduction to the statistical methods used in public policy. The course will cover the basics of probability, statistics, and quantitative methods in public policy analysis. The course stresses interpretation and presentation of data as well as theory.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PUB AFFR 819 – ADVANCED STATISTICAL METHODS FOR PUBLIC POLICY ANALYSIS**

3 credits.

A review of intermediate statistics, and an introduction to analytical, quantitative and computer techniques applicable to the analysis of public policy.

**Requisites:** Grad st Pub Affr 818 or equiv, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PUB AFFR 820 – COMMUNITY ECONOMIC ANALYSIS**

3 credits.

Economic theory (location and growth) applicable to community economic development; the role of private and public sector in local economic development, and techniques for economic analysis of community.

**Requisites:** ECON 301 or equiv

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PUB AFFR 827 – ADMINISTRATIVE INTERNSHIP**

1-3 credits.

Cr for placements in policy related positions in public private agencies with school's Career Devel Coordinator Assoc Dir

**Requisites:** Grad st in LaFollette School cons inst.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**PUB AFFR/ED POL/ELPA 830 – SCHOOL FINANCE AND RESOURCE ALLOCATION**

3 credits.

Contemporary bases for collecting and distributing local, state, and federal funds for elementary and secondary education; problems and issues in financial support of education; current, alternative and more effective uses of educational resources.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**PUB AFFR 850 – INTERNATIONAL GOVERNANCE**

3 credits.

Examines influences arising from international environment on policy makers and those seeking to influence policymaking. Considers role of global economic forces, international and regional organizations, international civil society reflected in non-governmental organizations, and flow of policies across borders.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PUB AFFR 854 – MACROECONOMIC POLICY AND INTERNATIONAL FINANCIAL REGULATION**

3 credits.

An introduction to international macroeconomic and financial policies with an emphasis on the interaction between domestic policies, and international financial markets, regulations and institutions.

**Requisites:** Grad st 1 crse in microecon macroecon, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PUB AFFR 856 – TRADE, COMPETITION, AND GOVERNANCE IN A GLOBAL ECONOMY**

3 credits.

Policy oriented course in international micro-economics and trade theory; including economic and institutional analysis of U.S. trade policy and the world trading system; issues covered include regional trading average; labor standards, income distribution and the environment.

**Requisites:** PUB AFFR 818 and 880

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PUB AFFR 857 – POLITICAL ECONOMY OF CORRUPTION AND GOOD GOVERNANCE**

3 credits.

Surveys wide range of multidisciplinary research on causes and consequences of widespread corruption and experiences of anticorruption reform strategies, with focus on developing countries. Considers role of international organizations, multinational companies, and regional agreements in building good governance globally.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**PUB AFFR 860 – WORKSHOP IN INTERNATIONAL PUBLIC AFFAIRS**

3 credits.

Workshop in program evaluation and policy analysis taught through student teams working on real-world international issues for agencies in the public, private, and non-profit sectors. Teaches analytical skills, report preparation and writing, and presentation of results.

**Requisites:** La Follette st Pub Affr 850

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PUB AFFR 864 – HEALTH POLICY AND POLICY DESIGN**

3 credits.

A survey course on health care policy in the United States, including examination of the design of health policy and the politics of health care reform.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**PUB AFFR/ENVIR ST/POLI SCI 866 – GLOBAL ENVIRONMENTAL GOVERNANCE**

3 credits.

In-depth examination of the political and policy challenges posed by global environmental degradation. Analysis of international institutions for managing the global environment.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PUB AFFR 867 – GOVERNMENT FINANCE IN DEVELOPING COUNTRIES**

3 credits.

This course explores fiscal decision-making by governments in developing countries, including decisions about the mix and level of public services, the choice of taxes and other financing mechanisms, and decisions about fiscal relationships between levels of government.

**Requisites:** Pub Affr 880 or equiv, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**PUB AFFR 869 – WORKSHOP IN PUBLIC AFFAIRS**

3 credits.

Workshop in program and policy analysis taught through student teams working on real problems for public agencies and organizations; teaches analytical skills, report preparation and writing; and presentations of results.

**Requisites:** La Follette st Pub Affr 873

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PUB AFFR/POLI SCI 871 – PUBLIC PROGRAM EVALUATION**

3 credits.

Compares the conceptual, statistical, and ethical issues of experimental, quasi-experimental and non-experimental designs for program evaluation. Definitions of outcomes, sample size issues, statistical biases in measuring causal effects of programs, and the reliability of findings will be emphasized using case studies selected from current public programs.

**Requisites:** PUB AFFR 818**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PUB AFFR 873 – INTRODUCTION TO POLICY ANALYSIS**

3 credits.

This course develops skills in policy analysis in two ways. First, it sets out the conceptual foundations for understanding the role of policy analysis in democratic politics. Second, it provides training and experience in policy analysis craft.

**Requisites:** La Follette st Pub Affr 874, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**PUB AFFR/POLI SCI/URB R PL 874 – POLICY-MAKING PROCESS**

3 credits.

An intensive study of policy-making processes involved in the formulation of public policies.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PUB AFFR/POLI SCI 875 – PUBLIC PERSONNEL ADMINISTRATION**

3 credits.

Analysis of personnel policies and practices in the public sector and examination of patterns of interaction between political executives, personnel professionals, public employees, and interest groups in the development of personnel policies. Compares problems and approaches of different countries as well as those of the various levels of government in the United States.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**PUB AFFR/POLI SCI/URB R PL 878 – PUBLIC MANAGEMENT**

3 credits.

Role of administration in American government; problems of organization, bureaucracy and control; public policy as the output of the administrative process.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**PUB AFFR 880 – MICROECONOMIC POLICY ANALYSIS**

3 credits.

The tools and techniques used in the economic approach to policy analysis. Emphasis is on applying these methodological tools to evaluating existing public policies and policy alternatives, as well as providing a deeper understanding of how the economy operates.

**Requisites:** Grad st 2 econ crses, including microeconomics**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PUB AFFR/A A E/ENVIR ST/POP HLTH 881 – BENEFIT-COST ANALYSIS**

3 credits.

This course will present the welfare economics underpinnings for evaluating the social benefits and costs of government activities. Issues such as uncertainty, the social discount rate, and welfare weights will be discussed; case studies from the environmental, social policy, and agricultural areas will be studied.

**Requisites:** Grad st, Pub Affr 818 880 or Pop Hlth 875 at least one crse in econ or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PUB AFFR 882 – SOCIAL WELFARE POLICY AND MANAGEMENT**

3 credits.

Considers social welfare policies—human capital development, employment, income and family support, and health care—and addresses focal questions about the state's role in social welfare service financing and provision, targeting publicly-funded services, and efficient and effective program administration and evaluation.

**Requisites:** Pub Affr 880 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2009

**PUB AFFR 883 – POLITICS OF POVERTY, INEQUALITY, AND SOCIAL POLICY**

3 credits.

Surveys the political forces that shape poverty, inequality, and related public policies in the United States. Builds on foundational knowledge of the policy-making process to provide graduate students with skills to understand and negotiate social politics in the United States.

**Requisites:** La Follette st or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**PUB AFFR/POLI SCI 885 – ADVANCED PUBLIC MANAGEMENT: CRAFT, CONSTRAINTS AND ACCOUNTABILITY**

3 credits.

Examines how managers in public and not-for-profit agencies can secure and utilize legal authority, human resources, and funds to accomplish organizational goals. Includes strategies for establishing and maintaining effective external relations and for working through other organizations to accomplish objectives.

**Requisites:** POLI SCI/PUB AFFR/URB R PL/POLI SCI/PUB AFFR 878**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**PUB AFFR/SOC WORK 887 – NONPROFIT LEADERSHIP**

3 credits.

Nonprofit leadership focuses on developing management skills for the nonprofit area through readings, case materials and structured activities. Students examine the context, issues and skills associated with leadership and management in nonprofit organizations and apply them to challenges and opportunities that confront administration of nonprofits.

**Requisites:** Social Work or La Follette Graduate student or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**PUB AFFR 888 – COMPARATIVE AND NATIONAL SOCIAL POLICY**

3 credits.

This graduate seminar provides an overview of the American system of public policy toward human resources, with an emphasis on how the American system compares with other nations' approaches to social welfare policy. Other nations include OECD nations as well as emerging middle income countries in Asia and Latin America. Social welfare policy is analyzed as three major branches: health, education and welfare.

**Requisites:** Pub Affr 880 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PUB AFFR/POLI SCI/URB R PL 890 – FEDERAL BUDGET AND TAX POLICY AND ADMINISTRATION**

3 credits.

Focuses on national budget and tax policy and administration, and the parallel processes at the state and local levels. Included are discussions of: decision-making theories; budget and tax policy; and analysis of normative and empirical criteria and analytical techniques for assessing alternative policy proposals.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**PUB AFFR 891 – STATE AND LOCAL GOVERNMENT FINANCE**

3 credits.

Explores the spending and tax policies of state and local governments. Focus on factors influencing the mix and level of public spending and the choice of revenue sources. Issues to be studied include the fiscal relations between governments and property tax.

**Requisites:** PUB AFFR 880**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**PUB AFFR 892 – PUBLIC BUDGETING**

3 credits.

Provides an understanding of budget preparation, adoption and execution; proposed reforms of the budget process; and competing theories of the politics of budgeting. Focuses on the expenditure aspect of budgeting.

**Requisites:** La Follette grad stdt or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**PUB AFFR 895 – PERFORMANCE MANAGEMENT**

3 credits.

Introduces students to the concept of performance management. Explores different tools that aim to raise performance. Examines recent reforms at the federal, state, and local level and alternative theories of performance.

**Requisites:** Pub Affr 878**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**PUB AFFR 974 – TOPICS IN PUBLIC AFFAIRS**

3 credits.

Current issues in the formulation, implementation, and analysis of public policy.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## LANDSCAPE ARCHITECTURE (LAND ARC)

**LAND ARC 1 – COOPERATIVE EDUCATION/CO-OP IN LANDSCAPE ARCHITECTURE**

1 credit.

Full-time off-campus work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career. Students receive credit only for the term in which they are actively enrolled and working. The same work experience may not count towards credit in Land Arc 399.

**Requisites:** So st, and consent of supervising instructor and academic advisor.**Repeatable for Credit:** Yes, unlimited number of completions**LAND ARC 201 – INTRODUCTORY LANDSCAPE ARCHITECTURE STUDIO**

2 credits.

Introduction to the techniques of landscape design, planning, and management through studio exercises.

**Requisites:** Land Arc 250 or con reg**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAND ARC 250 – SURVEY OF LANDSCAPE ARCHITECTURE DESIGN**

3 credits.

Principles of landscape and environmental design; incorporates elements of landscape planning and management. Provides background to the ideas and personalities shaping landscape architecture in America.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Humanities  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAND ARC 260 – HISTORY OF LANDSCAPE ARCHITECTURE**

3 credits.

A critical and historical analysis of our design of outdoor space.

**Requisites:** None**Course Designation:** Breadth - Humanities  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LAND ARC 261 – PRINCIPLES OF LANDSCAPE ARCHITECTURE DESIGN AND GRAPHICS**

4 credits.

Basic principles in the design of landscapes to aid the student in developing individual capacities and approaches to designing. Principles of graphic communication media and development of practical graphic skills.

**Requisites:** Declared in Landscape Architecture major**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAND ARC 262 – LANDSCAPE INVENTORY AND EVALUATION METHODS**

4 credits.

Inventory and evaluation of physical, biological, visual, and cultural site resources to determine their potential for enhancement of human activities and their sensitivities to use-impact. Emphasis on information sources, data gathering methods and analysis techniques with projects to develop proficiency.

**Requisites:** Land Arc 250 or consent of instructor**Course Designation:** Breadth - Natural Science  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LAND ARC/HORT 263 – LANDSCAPE PLANTS I**

3 credits.

Field identification, landscape characteristics, uses, environmental requirements, adaptability of woody ornamental plants; their autumn and winter character.

**Requisites:** An intro botany crse or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**LAND ARC/ANTHRO/ART HIST/DS/HISTORY 264 – DIMENSIONS OF MATERIAL CULTURE**

4 credits.

This course introduces students to the interdisciplinary field of material culture studies. It is intended for students interested in any professional endeavor related to material culture, including careers in museums, galleries, historical societies, historic preservation organizations, and academic institutions. During the semester, students have varied opportunities to engage with and contemplate the material world to which people give meaning and which, in turn, influences their lives. Sessions combine in some way the following: presentations from faculty members and professionals who lecture on a phase of material culture related to his/her own scholarship or other professional work; discussion of foundational readings in the field; visits to collections and sites on campus and around Madison; discussion of readings assigned by visiting presenters or the professors; and exams and short papers that engage material culture topics.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAND ARC 270 – LANDSCAPE ARCHITECTURE WORKSHOP**

1-2 credits.

Lectures, projects, and studio exercises covering topical areas of landscape architecture. Open to non-majors

**Requisites:** Land Arc 250 or cons inst.**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2010**LAND ARC 289 – HONORS INDEPENDENT STUDY**

1-2 credits.

Inter-Ag 288

**Requisites:** Enrolled in the CALS Honors Prgm Sophomore or Junior standing.**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions**LAND ARC 299 – INDEPENDENT STUDIES**

1-3 credits.

**Requisites:** Open to Freshmen, Sophomore or Junior standing written consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LAND ARC/F&W ECOL/HORT/PL PATH 309 – DISEASES OF TREES AND SHRUBS**

3 credits.

Fundamental disease concepts, pathogens and causal agents, diagnosis, and biologically rational principles and practices for management of diseases of trees and shrubs. For degree students and professionals. One extended lecture with discussion and one lab or field trip per week.

**Requisites:** One semester of plant sci or consent of instructor**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAND ARC 312 – GRAPHICS FOR DESIGNERS**

3 credits.

Principles of graphic communication media, and development of practical graphic skills to enhance the professional student's ability to communicate with lay and professional audiences.

**Requisites:** Concurrent registration in a design course**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**LAND ARC 321 – ENVIRONMENT AND BEHAVIOR STUDIO - DESIGNING HEALTH PROMOTING ENVIRONMENTS**

3 credits.

This course is a design studio in with an emphasis on the application of design principles aimed at promoting people's health and wellbeing in the built environment.

**Requisites:** LAND ARC 201, 261, 262, 312 and DS 221**Repeatable for Credit:** No**Last Taught:** Spring 2017**LAND ARC 351 – HOUSING AND URBAN DESIGN**

4 credits.

An application of landscape design principles and problem-solving methods to housing and urban issues. Introduction to physical site design, land-use controls, and the relationship between housing and associated land uses. Projects focus on the central city and/or suburbs.

**Requisites:** Land Arc 261 and 365 or concurrent registration**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017



**LAND ARC 353 – LANDSCAPE ARCHITECTURAL TECHNOLOGY I**

3 credits.

Problems dealing with the comprehension and modification of the earth's surface including landform design, preparation of grading plans, earthwork calculations.

**Requisites:** MATH 112 and 113 (or equivalent) and CEE 450**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**LAND ARC 354 – LANDSCAPE ARCHITECTURAL TECHNOLOGY II**

3 credits.

Problems dealing with construction detailing, including roadways, drainage structures, construction materials, cost estimating, specifications and working drawings.

**Requisites:** Land Arc 353**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAND ARC/BSE/DS 356 – SUSTAINABLE RESIDENTIAL CONSTRUCTION**

3 credits.

Properties and use of building materials, framing systems, HVAC systems, code requirements, conservation of natural resources in building construction and operation.

**Requisites:** MATH 112, 114, or 171**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**LAND ARC/ENVIR ST 361 – WETLANDS ECOLOGY**

3 credits.

Types, origins, settings, and structure of wetlands. Physical, biological, and cultural values, uses and assessments. Physical and biological characteristics and dynamics. Protection, management and restoration. Field trips, literature review, term paper, and personal observations required.

**Requisites:** Upper class st; basic college- level biology or equiv (such as relevant physical sciences)**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LAND ARC 365 – PLANTING DESIGN I**

3 credits.

Fundamentals of planting composition with emphasis on visual consideration of ecological relationships. Lectures enhanced by student sketches, plans, and models.

**Requisites:** Land Arc 262, 263, and 353 or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAND ARC/ENVIR ST/F&W ECOL/G L E/GEOG/GEOSCI 371 – INTRODUCTION TO ENVIRONMENTAL REMOTE SENSING**

3 credits.

Introduction to the Earth as viewed from above, focusing on use of aerial photography and satellite imagery to study the environment. Includes physical processes of electromagnetic radiation, data types and sensing capabilities, methods for interpretation, analysis and mapping, and applications.

**Requisites:** MATH 114 Sophomore standing**Course Designation:** Level - Intermediate  
L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAND ARC/ENVIR ST/F&W ECOL/G L E/GEOG/GEOSCI 372 – INTERMEDIATE ENVIRONMENTAL REMOTE SENSING**

3 credits.

Examines intermediate-level concepts in information extraction, data processing and radiative transfer relevant to remote sensing of the environment. Includes transforms, image correction, classification algorithms and change detection, with emphasis on applications for land use planning and natural resource management.

**Requisites:** Envir St 301 or consent of instructor, sophomore standing**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**LAND ARC 375 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Cons inst**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LAND ARC 399 – COORDINATIVE INTERNSHIP/COOPERATIVE EDUCATION**

1-8 credits.

**Requisites:** So, Jr or Sr st and cons supervising inst, advisor, and program coordinator**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017

**LAND ARC 400 – STUDY ABROAD IN LANDSCAPE ARCHITECTURE**

1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. W.-Madison Study Abroad Program

**Requisites:** Current registration in a U.**Repeatable for Credit:** Yes, unlimited number of completions**LAND ARC 451 – OPEN SPACE PLANNING AND DESIGN**

3 credits.

Form-giving design of open spaces in urban and rural settings and management for amenity and functional values. Integration of human activity requirements and experiences with physical and natural site features.

**Requisites:** Land Arc 351, 354, 365**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**LAND ARC 462 – REGIONAL DESIGN**

3 credits.

Exploration of broad scale design issues to develop synthesis and design skills. Uses spatial form and bioregional cultural, ecological and environmental concepts to solve land use and conservation problems. Emphasizes sustainable design. Introduces public and non-profit design tools.

**Requisites:** Land Arc 351, 354, 365, 451 or Grad st and cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAND ARC/URB R PL 463 – EVOLUTION OF AMERICAN PLANNING**

3 credits.

The nature and cultural significance of contemporary methods for the systematic formulation of public policies for community, metropolitan, and state development through comprehensive planning. Historic roots, recent trends and new directions in American planning concepts, institutions and professional specializations.

**Requisites:** Junior standing**Course Designation:** Breadth - Social Science  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2016**LAND ARC 550 – PROFESSIONAL PRACTICE IN LANDSCAPE ARCHITECTURE**

3 credits.

Introduction to operational procedures used in professional offices ranging from private landscape architectural design firms to public agencies. Practical experience project organization and management including the preparation of project manuals, legal documents, and construction contracts.

**Requisites:** Land Arc 351 451 con reg in Land Arc 610**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAND ARC 551 – SENIOR PROJECT IN LANDSCAPE ARCHITECTURE**

4 credits.

Problems in landscape design, planning and management for which students take the initiative in their definition and solution. Provides an opportunity for synthesis of the knowledge, skills, and approaches learned in previous course work.

**Requisites:** Land Arc 610**Course Designation:** Gen Ed - Communication Part B**Repeatable for Credit:** No**Last Taught:** Spring 2017**LAND ARC/CIV ENGR/ENVIR ST 556 – REMOTE SENSING DIGITAL IMAGE PROCESSING**

3 credits.

Techniques of enhancement and quantification of remote sensing imagery. Emphasis on processing and analyzing data gathered by airborne and satellite sensors. Techniques to quantitatively analyze data from photography, electro-optical scanners, satellite systems, and radar and passive microwave systems. A 5-week practicum with applications to: agriculture and forestry, geology and soils, water quality, and urban and regional planning.

**Requisites:** Civ Engr/Envir St/Forestry 303 or authorization**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**LAND ARC/F&W ECOL/ZOOLOGY 565 – PRINCIPLES OF LANDSCAPE ECOLOGY**

2 credits.

Landscape ecology emphasizes the importance of spatial patterns at broad scales. Concepts and applications are emphasized, especially for seniors and graduate students in applied natural resource fields. The course is also a prerequisite for Zoology/Forest Ecology 665, Advanced Landscape Ecology. Lecture format with discussion.

**Requisites:** Botany/Zoology/Forest 460, or Forest 550, a crse in stats, cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**LAND ARC 610 – LANDSCAPE ARCHITECTURE SEMINAR**

1-2 credits.

Environmental problems and issues related to project, urban or regional scale.

**Requisites:** Sr st**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LAND ARC/URB R PL 622 – APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS IN PLANNING**

3 credits.

Explores planning-related GIS data, applications, analytical tools, and issues. Grad st or cons inst. Priority given to Urb R PI stdts

**Requisites:** Intro GIS course or experience using GIS is a pre-requisite.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**LAND ARC 630 – GEODESIGN FOUNDATIONS**

3 credits.

This online lecture, discussion and lab course is designed specifically for students enrolled in the Capstone Certificate in Geodesign. Geodesign is the integration of design and planning, the social and economic sciences, the physical and natural sciences, human values and public participation, using geographic information systems (GIS) with the goal of creating a better, more sustainable and resilient future. This course focuses on understanding the history, leaders, trends, and various frameworks of Geodesign. This introduction to Geodesign will cover a broad body of knowledge that includes: historical foundations of Geodesign; critically evaluate Geodesign frameworks; relationship between Geodesign and planning and design processes, including decision-making frameworks; roles and practices of geospatial technology for planning and design; interdisciplinary application of evidence based design using social and natural science research; communication of spatial decisions, data, information, and processes; spatially evaluate public policy and regulation; and values and ethical issues in Geodesign.

**Requisites:** Students must be admitted into the Capstone Certificate in Geodesign Program**Repeatable for Credit:** No**LAND ARC 631 – GEODESIGN METHODS**

3 credits.

This course focuses on understanding and application of methods and technology used in the Geodesign framework using the following models: representation, process, evaluation, change, impact, and decision. Students write a methods focused, preliminary project proposal. Geodesign methods and technology are vast and continually evolving, but will be limited to industry standards: Esri ArcGIS Desktop, Esri CityEngine, Trimble SketchUp, and various open-source alternatives as needed (i.e. QGIS, Grass, etc). Students will be exposed to and may use, at their own discretion in coordination the instructor, other open-source alternatives on individual assignments when software and methods choices are at their discretion (see assignment statements for specific requirements).

**Requisites:** Students must be admitted into the Capstone Certificate in Geodesign Program**Repeatable for Credit:** No**LAND ARC 633 – GEOSPATIAL APPROACHES TO CONSERVATION AND ADAPTATION**

2 credits.

Students will explore and use applications of GIS particularly related to landscape ecology, environmental analysis, and conservation design. Engaged students will: a. learn/practice how to solve spatial environmental questions; b. proficiently apply design thinking toward landscape conservation and adaptation solutions.

**Requisites:** Land Arc 630 and Land Arc 631 and admission to the Capstone Certificate in Geodesign**Repeatable for Credit:** No**LAND ARC 634 – GEODESIGN CAPSTONE PROJECT**

3 credits.

This capstone course is the culmination of the yearlong Geodesign Certificate Program. It is designed for students to demonstrate the skills and knowledge that they have acquired in the four prerequisite courses by resolving a "real world" geodesign problem. Students will work with their advisors on projects of their own choosing and as agreed upon by their advisors and the program coordinator and director.

**Requisites:** Land Arc 630, Land Arc 631, Land Arc 633, and Land Arc 671 and admission to the Capstone Certificate in Geodesign**Repeatable for Credit:** No**LAND ARC/DS 639 – CULTURE AND BUILT ENVIRONMENT**

3 credits.

The course explores cultural values embedded in buildings through understanding physical configurations, social organizations, practiced/symbolic/representational aspects of buildings. The course covers a wide range of cultures and the built environments they produce including examples from the Americas, the Middle East, as well as those of the many ethnic minorities in the U.S.

**Requisites:** Junior standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**LAND ARC 651 – PLANT COMMUNITY RESTORATION AND MANAGEMENT WORKSHOP**

4 credits.

Formulation of plant community restoration and management plans; including the preparation of planting plans and working drawings for implementation. Classroom and practical exposure to natural areas management tools, including prescription prairie fire.

**Requisites:** Land Arc 262 or Grad st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016

**LAND ARC 666 – RESTORATION ECOLOGY**

3 credits.

Philosophy and techniques in the use of native vegetation for landscape purposes. Application of current knowledge in restoration and maintenance of native plant communities. Lecture, lab and field.

**Requisites:** Land Arc 365 or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAND ARC 667 – FIELD STUDY: NATIVE PLANT COMMUNITIES**

3 credits.

Field analysis and interpretation of the vegetational composition, aesthetic quality and effects of disturbance within a variety of native Wisconsin plant communities. Field work, readings and discussions.

**Requisites:** Plant identification course(s) and cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2008**LAND ARC/BOTANY 670 – ADAPTIVE RESTORATION LAB**

2 credits.

Field experience in restoration as an adaptive process involving field experimentation; baseline data collection on restoration sites; design of experiments to advance restoration science; quantitative evaluation of restoration outcomes. Analysis and interpretation of data; development of a team report.

**Requisites:** a crse in ecology a crse in stats, or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**LAND ARC 671 – GEODESIGN FOR SUSTAINABILITY AND RESILIENCY**

3 credits.

This course explores the Geodesign concepts and analysis methods can support sustainability and resiliency. A brief history and development of the sustainability and resiliency movements establishes context, motivation and priorities for Geodesign. Characteristics of public participation frame the role of geodesign to engage and empower the community to plan for sustainability and resiliency. Discovery of issues, spatial data and analyses follows a conceptual and geographical trend from local to global scales and urban to rural localities. These include population density, land cover change, urban growth/sprawl, transportation, walkable neighborhoods, water resources, green infrastructure, landscape prioritization, carbon footprint analysis, and climate change. Geodesign approaches include measurement of indicators/metrics, resource management, cost/benefit analyses, and proximity measurements. Experience with these methods and data resources takes place in weekly laboratory/homework exercises throughout the semester.

**Requisites:** Land Arc 630 and Land Arc 631 and admission to the Capstone Certificate in Geodesign**Repeatable for Credit:** No**LAND ARC 675 – HISTORIC PRESERVATION PLANNING FIELD WORKSHOP**

1-4 credits.

Identification of Wisconsin's rural historic and cultural features and the planning alternatives available for their preservation and utilization. Lecture, lab and field.

**Requisites:** Consent of instructor**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2009**LAND ARC 677 – CULTURAL RESOURCE PRESERVATION AND LANDSCAPE HISTORY**

3 credits.

A survey of cultural resource preservation, landscape history and approaches to a more comprehensive framework for environmental management.

**Requisites:** At least 2 courses in history or the social sciences, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**LAND ARC 681 – SENIOR HONORS THESIS**

2-4 credits.

**Requisites:** Honors program candidacy**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** No**Last Taught:** Fall 2014

**LAND ARC 682 – SENIOR HONORS THESIS**

2-4 credits.

Continuation of 681.

**Requisites:** Honors program candidacy Land Arc 681**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** No**Last Taught:** Spring 2015**LAND ARC 691 – SENIOR THESIS**

4 credits.

**Requisites:** Consent of instructor**Repeatable for Credit:** No**Last Taught:** Spring 2015**LAND ARC 692 – SENIOR THESIS**

4 credits.

**Requisites:** Consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 1999**LAND ARC/ENVIR ST/SOIL SCI 695 – APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS IN NATURAL RESOURCES**

3 credits.

Course has four components: 1) Detailed review of GIS concepts; 2) Case studies; 3) GIS implementation methods; 4) Laboratory to provide "hands-on" GIS experience.

**Requisites:** Land Arc/Envir St/Civ Engr 655 or GEOG/CIV ENGR/ ENVIR ST 377 or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LAND ARC 699 – SPECIAL PROBLEMS-LANDSCAPE ARCHITECTURE**

1-5 credits.

**Requisites:** Sr st and cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LAND ARC 710 – THEORIES OF LANDSCAPE CHANGE**

2 credits.

Theories of landscape change in the arts and sciences. Contributions of the scientific method and humanistic frameworks to major issues in landscape architecture.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAND ARC 720 – CRITICAL INQUIRY INTO LANDSCAPE DESIGN EXPRESSION**

2 credits.

Normative design theory as it relates to historical and contemporary aesthetic expression in landscape design. Review of critical theory and meaning associated with a broad landscape architecture typology.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAND ARC 740 – RESEARCH IN LANDSCAPE ARCHITECTURE**

3 credits.

Overview of research: Logic and language of the process, substantive issues, criticism of research literature, developments of detailed proposals.

**Requisites:** Grad st in land arch or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**LAND ARC/ANTHRO/ART HIST/DS/HISTORY 764 – DIMENSIONS OF MATERIAL CULTURE**

4 credits.

This course introduces students to the interdisciplinary field of material culture studies. It is intended for students interested in any professional endeavor related to material culture, including careers in museums, galleries, historical societies, historic preservation organizations, and academic institutions. During the semester, students have varied opportunities to engage with and contemplate the material world to which people give meaning and which, in turn, influences their lives. Sessions combine in some way the following: presentations from faculty members and professionals who lecture on a phase of material culture related to his/her own scholarship or other professional work; discussion of foundational readings in the field; visits to collections and sites on campus and around Madison; discussion of readings assigned by visiting presenters or the professors; and exams and short papers that engage material culture topics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAND ARC 866 – SEMINAR IN NATURAL PLANT COMMUNITY RESTORATION AND MANAGEMENT**

1 credit.

Student presentations on topics related to plant community management and restoration.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014



**LAND ARC/URB R PL 920 – REGIONAL DESIGN WORKSHOP**

2-3 credits.

Development and application of a systematic approach to analysis and design at macro- and micro-scales within a regional context.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**LAND ARC 940 – GRADUATE SEMINAR**

1-2 credits.

Individual research, group discussion and workshop covering selected problems relating to the environment and landscape architecture.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**LAND ARC 990 – RESEARCH**

1-12 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAND ARC 999 – INDEPENDENT STUDIES**

1-3 credits.

Opportunity to explore concepts or issues of particular interest to the student.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## LANGUAGES AND CULTURES OF ASIA (LCA)

**LCA 100 – INTRODUCTION TO CULTURES OF ASIA**

3 credits.

Introduction to the cultures of Central, Southwest, South, and Southeast Asia. Required core course for undergraduate majors in languages and cultures of Asia.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**LCA 101 – INTRODUCTION TO LITERATURES OF ASIA**

3 credits.

An introduction to the study of Asian literatures and their cultural contexts, with a focus on the analysis of literary texts in a variety of genres.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**LCA/E ASIAN/ENVIR ST 115 – ENVIRONMENTAL HUMANITIES: ASIAN/PACIFIC PERSPECTIVES**

3-4 credits.

Course offers a case-based approach to environmental studies from a humanistic perspective, taking into account diverse and connected transnational systems of Asia; materials draw on themes like forests, water, disaster, war, and conservation and wildlife. Course introduces disciplines in the Environmental Humanities (literature, religion, music, etc.) through studies in tradition, theory and practice across South Asia, Southeast Asia, East Asia and ocean and Pasifik regions including Aotearoa, New Zealand. Throughout the course we ask, how are environmental worldviews cast as the basis for action and understanding in the present?

**Requisites:** None

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**LCA/HISTORY 144 – TRAVELING THE WORLD: SOUTH ASIANS IN DIASPORA**

4 credits.

Millions of South Asians left their home in the Indian subcontinent to travel the world across the Indian Ocean to Africa, the Middle East and Southeast Asia; across the Atlantic Ocean to the Caribbean and Britain; and across the Pacific Ocean to Fiji and California. This course follows these Indian traders, political leaders, workers and pilgrims as they discovered the world beyond India. The cultural, social, economic and political experiences of these sojourners and settlers reveals an exciting transnational perspective on the history of migration, diaspora, nationalism and colonialism in India, Africa, Asia, America and Britain.

**Requisites:** None

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No



**LCA/HISTORY/RELIG ST 205 – THE MAKING OF THE ISLAMIC WORLD: THE MIDDLE EAST, 500-1500**

3-4 credits.

Development of society and culture in the Middle East and North Africa from the emergence of Islam (7th century) to early modern times.

**Requisites:** Open to All Undergrads**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LCA/RELIG ST 206 – INTRODUCTION TO THE QUR'AN**

4 credits.

An introduction to the Qur'an, the sacred scripture of the Islamic religious tradition, focused on Muslim approaches to reading the text, its themes and history, and its use as a source of law, theology, aesthetics, politics, and practices of piety.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**LCA/E ASIAN/RELIG ST 235 – GENRES OF ASIAN RELIGIOUS WRITING**

3 credits.

Writing intensive course based on the conventions in which Asian writers have expressed religious ideas. Readings introduce major Asian religious traditions and expressive genres. Open to Fr

**Requisites:** Successful completion of or exemption from Com A requirement.**Course Designation:** Gen Ed - Communication Part B

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LCA 236 – BASCOM COURSE**

3 credits.

A low-enrollment course developing skills in critical reading, logical thinking, use of evidence, and use of library resources. Emphasis on writing in the conventions of specific fields. Open to Fr

**Requisites:** Successful completion of or exemption from Com A requirement.**Course Designation:** Gen Ed - Communication Part B

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2014**LCA/GEOG/HISTORY/POLI SCI/SOC 244 – INTRODUCTION TO SOUTHEAST ASIA: VIETNAM TO THE PHILIPPINES**

4 credits.

Southeast Asian history, religion, folklore and literatures, educational systems, and politics from the early classical states to contemporary social, literary, and political developments.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LCA/ASIAN AM/HISTORY 246 – SOUTHEAST ASIAN REFUGEES OF THE "COLD" WAR**

4 credits.

In-depth study of the peoples, conflicts, and wars in Cambodia, Laos, and Vietnam, with emphasis on the Cold War era (1945-1990) and on the resulting migration and resettlement of over one million Hmong, Khmer, Lao, and Vietnamese in the United States.

**Requisites:** Open to Fr**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LCA/GEOG/HISTORY/POLI SCI/SOC 252 – THE CIVILIZATIONS OF INDIA-MODERN PERIOD**

4 credits.

Contemporary India society as a joint product of the classical heritage and world-wide movements toward nationalism; social and economic development.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LCA/HISTORY 265 – AN INTRODUCTION TO CENTRAL ASIA: FROM THE SILK ROUTE TO AFGHANISTAN**

3 credits.

Examination of human geography, ethnicity, nomadism and pastoralism, oases cultures, religion and international politics of the silk routes of central Asia.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016

**LCA 266 – INTRODUCTION TO THE MIDDLE EAST**

3 credits.

An interdisciplinary introduction to the diverse cultures, geography, history, modern states, politics, societies, and economies of the Middle East. Since the Middle East is predominantly Muslim, there will be a special emphasis on Islam as a religion and Muslim peoples.

**Requisites:** Open to Fr**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LCA/RELIG ST 274 – RELIGION IN SOUTH ASIA**

3 credits.

Introductory survey of Hinduism, Buddhism, Islam, Sikhism, etc., and an examination of the cultural, historical, ritual, and philosophical foundations of South Asian religion.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**LCA/FOLKLORE 279 – INTRODUCTION TO TURKISH FOLK LITERATURE**

3 credits.

Survey of major genres of Turkish folk literature including oral epic, heroic and romance tales of minstrels, mystical love poetry, fairy tales, dervish tales, legends, riddles, proverbs, and jokes with emphasis on performance contexts and cross-cultural perspectives. Open to Fr

**Requisites:** Successful completion of or exemption from Com-A requirement.**Course Designation:** Gen Ed - Communication Part B Breadth - Literature. Counts toward the Humanities req Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2010**LCA 300 – TOPICS IN LANGUAGES AND CULTURES OF ASIA**

3 credits.

Selected topics in the study of the languages and cultures of Asia.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LCA/E ASIAN/HISTORY/RELIG ST 308 – INTRODUCTION TO BUDDHISM**

3-4 credits.

The basic thought, practices and history of Buddhism, including selflessness and relativity, practices of meditation, merit-making and compassion from both local and translocal perspectives. Includes a discussion of Buddhism as a contemporary, North American religion.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LCA 311 – MODERN INDIAN LITERATURES**

3 credits.

Introduction to advanced study of modern literatures of India in translation from several languages. Emphasizes literary and critical analysis of short story, novel, poetry, and drama; historical and cultural contexts of literature; and relations and dynamics of multiple literary cultures.

**Requisites:** Open to Fr**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LCA 314 – LITERATURES OF CENTRAL ASIA**

3 credits.

Critical survey of the development of medieval and modern literatures of the peoples of Central Asia from pre-Islamic times to the present with selected readings in English translation.

**Requisites:** LCA undergrad major or Grad st**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**LCA/POLI SCI 326 – POLITICS OF SOUTH ASIA**

3-4 credits.

Introduces students to the history and politics of the region with a special focus on India, Pakistan, and Sri Lanka and the regional and international contexts of South Asia. Students who have taken POLI SCI 651 prior to Fall 2017 may not enroll in this course. Not open to students with credit for POLI SCI 651 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 120 or POLI SCI 182 or INTL ST 101) or (POLI SCI 106 or 186 taken prior to fall 2017) or graduate standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**LCA/LITTRANS/THEATRE 348 – IN TRANSLATION: MODERN INDIAN THEATRE**

3 credits.

Study of drama, dramatic theory, and performance in modern India. Course considers interpenetration of Indian and Western systems of dramaturgy, relation between colonial and postcolonial institutions, socio-cultural and political contexts, and major modern dramatic genres.

**Requisites:** Junior standing or consent of instructor

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**LCA/RELIG ST 355 – HINDUISM**

4 credits.

An historical survey of Hindu scriptures, rituals, philosophies, and ethics from the ancient to the contemporary world. Concepts such as karma, yoga, and reincarnation will be put in the broader contexts of Hindu theism, worship, and law.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**LCA/ENVIR ST/HIST SCI/RELIG ST 356 – ISLAM, SCIENCE & TECHNOLOGY, AND THE ENVIRONMENT**

3-4 credits.

Survey of Muslim religious understandings of science, technology, nature and environment. Lectures and readings present a global perspective through case studies, covering sources such as the Qur'an, theology and law, and traditions of esoteric piety (mysticism), and historical and contemporary issues like medical ethics, virtual realities, and environmental change, challenge and crisis.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**LCA/RELIG ST 357 – LITERATURES OF MUSLIM SOCIETIES**

3 credits.

Survey in English of the literatures of the Islamic Middle East and South West Asia in Turkish, Persian and Arabic. Emphasis on comparative approaches within an Islamic cultural continuum and reactions to this heritage in the modern and post-modern periods.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**LCA 361 – SURVEY OF INDONESIAN CULTURES**

3 credits.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**LCA/RELIG ST 367 – JAINISM: RELIGION OF NON-VIOLENCE**

3 credits.

An examination of the theological, ritual, and social frameworks of the Jain tradition; explores the moral and physical implications of asceticism and non-violence from a Jain perspective through a study of sacred texts and contemporary practice.

**Requisites:** Open to Freshmen

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**LCA/AFRICAN/RELIG ST 370 – ISLAM: RELIGION AND CULTURE**

3-4 credits.

The emergence and development of Islam; schism; theology; asceticism; speculative and popular mysticism; literatures in diverse Islamic languages.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LCA 373 – URDU PROSE FICTION IN INDIA AND PAKISTAN**

3 credits.

Major trends in Urdu fiction since 1880 in Urdu and secondarily in English. Other undergrads register for LITTRANS 273

**Requisites:** LCA major, Grad st, or cons inst.**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2008**LCA/FOLKLORE 374 – INDIAN FOLKLORE**

3 credits.

An introduction to Indian folklore; with all its traditions and genres; folktales, folksongs, myths, rituals, as well as literary sources like the epics.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2009**LCA/ART HIST 379 – CITIES OF ASIA**

3 credits.

Historical overview of the built environment of cities of Asia from antiquity to the present; architectural and urban legacy in its social and historical context; exploration of common themes that thread through the diverse geographical regions and cultures of Asia.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**LCA 401 – MODERN INDONESIAN LITERATURE**

3 credits.

Representative novels, short stories and essays from early 20th century to the present are placed in the literary and cultural context of Indonesia. Other undergrads register for LITTRANS 301

**Requisites:** LCA major, Grad st, or cons inst.**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2012**LCA/RELIG ST 402 – THOUGHT OF GANDHI**

3 credits.

Critical analysis of Gandhi's social, political, and religious thought, tracing his experiences in South Africa and India, noting links between his concepts and classical Hinduism, examining criticisms raised against Gandhi's thought, and identifying contemporary continuities of Gandhi's thought in India, Europe, and the U.S.

**Requisites:** So st or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2014**LCA 403 – SOUTHEAST ASIAN LITERATURE**

3 credits.

An introduction to the cultures and societies of Southeast Asia through modern prose literature. The first semester focuses on the mainland, the second semester focuses on the islands. The two semesters may be taken independently.

**Requisites:** So st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2013**LCA 404 – SOUTHEAST ASIAN LITERATURE**

3 credits.

An introduction to the cultures and societies of Southeast Asia through modern prose literature. The first semester focuses on the mainland, the second semester focuses on the islands. The two semesters may be taken independently.

**Requisites:** So st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013

**LCA/RELIG ST 421 – A SURVEY OF TIBETAN BUDDHISM**

3 credits.

By studying the distinctively Tibetan forms of Buddhism, we also examine more general issues, such as the relationship between theory and practice, the politics of "world-making", and the connection between identity and experience.

**Requisites:** So st or cons inst; prev study of Buddhism strongly recommended

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LCA/ART HIST 428 – VISUAL CULTURES OF SOUTH ASIA**

3 credits.

Concentrates on image complexes (art, photography, and cinema) and visual environments (architecture, urban planning, and public rituals) of South Asia; examination of visual culture through thematic issues such as, sexuality, patronage, cultural encounter, transculturation, ways of viewing, modernism, and nationalism.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LCA/ANTHRO/LINGUIS 430 – LANGUAGE AND CULTURE**

3-4 credits.

The relationship of language as a communication system to the culture transmitted by it. Principle problems in the interrelations of language and nonlinguistic human behavior.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**LCA/HISTORY/RELIG ST 438 – BUDDHISM AND SOCIETY IN SOUTHEAST ASIAN HISTORY**

3-4 credits.

Theravada Buddhism in Southeast Asia; ideas and basic tenets; history and its impact on social and political institutions; the monastic order and relations with the states; roles in the early history up to the present; focus on Thailand and Burma.

**Requisites:** So st

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**LCA 441 – LANGUAGE AND SOCIETY IN SOUTHEAST ASIA**

3 credits.

Languages of Southeast Asia are explored from historical, linguistic, anthropological and literary perspectives. The roles of majority and minority languages as well as national and international languages are investigated.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**LCA/RELIG ST 444 – INTRODUCTION TO SUFISM (ISLAMIC MYSTICISM)**

3 credits.

The rise and development of mysticism in Islam; basic Sufi doctrines, values and practices; life and works of important speculative and popular Sufi saints; Sufi brotherhoods in the Middle East, South Asia and North Africa.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**LCA/HISTORY 450 – MAKING OF MODERN SOUTH ASIA**

3-4 credits.

Everything you ever hear about South Asia is true. But the exact opposite is also true. Tradition and modernity, development and stagnation, the past and the future all exist simultaneously, at times in harmony and at other times in conflict with one another. Through an exploration of the political, social and economic history of this region from the 18th century to the present day, students will learn about the making of modern South Asia and attempt to understand this paradox.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**LCA/HISTORY 457 – HISTORY OF SOUTHEAST ASIA TO 1800**

3-4 credits.

Formation and development of classical Indian and Chinese influenced societies in the area comprising present-day Burma, Thailand, Cambodia, Laos, Vietnam, Malaysia, Indonesia, and the Philippines, and their meeting with Islam and the early Europeans.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**LCA/HISTORY 458 – HISTORY OF SOUTHEAST ASIA SINCE 1800**

3-4 credits.

Effects of the modern Western revolution on the established societies of Southeast Asia through colonial rule and economic and cultural change.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LCA/ANTHRO 462 – ANTHROPOLOGY OF SOUTH ASIA**

3 credits.

Examines dominant intellectual paradigms informing anthropology of South Asia. Topics include debates on caste, kinship, socialization, religions, applied anthropology. Primary focus India but students may write research paper on any South Asian country.

**Requisites:** Junior standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2008**LCA/E ASIAN/RELIG ST 466 – BUDDHIST THOUGHT**

3 credits.

Survey of the fundamental trends in Buddhist thought through the works of major philosophers. Themes include the concept of "selflessness" and concomitant theories of essencelessness, perception, language and rationality. Previous study of Buddhism or philosophy is strongly recommended. Prev study of Buddhism or philos strongly recommended.

**Requisites:** So st or cons inst.**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LCA/GEN&WS/HISTORY 472 – WOMEN IN TURKISH SOCIETY**

3 credits.

Interdisciplinary analysis of women's issues in Turkish society from the Ottoman era imperial harem to Islamist feminist movements in the secular Republic of Turkey today. Emphasis on the critical use of a comprehensive set of disciplinary lenses.

**Requisites:** So st or cons inst**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2010**LCA/ENGL 478 – INDIAN WRITERS ABROAD: LITERATURE, DIASPORA AND GLOBALIZATION**

3 credits.

Study of literature, drama, and film produced by authors of South Asian origin in Europe, North America, and the Caribbean. Course considers theories of diaspora, changing patterns of subcontinental migration, and relation of diasporic forms to the cultures of origin and adoption. Students who have taken English 524 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of literature**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**LCA/HISTORY/RELIG ST 547 – RELIGION, COLONIALISM & MODERNITY IN SOUTHEAST ASIA**

3 credits.

Examines changes in Southeast Asian religions (Buddhism, Confucianism, Islam) and experiences of modernity during the colonial period. Focus on religious and literary expressions from Thailand, Cambodia, Vietnam and Indonesia.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**LCA 568 – STUDY ABROAD IN RELIGIONS AND PHILOSOPHIES**

2-6 credits.

Study of religions and philosophies offered by a UW-approved study-abroad program outside the United States.

**Requisites:** Jr st**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**LCA 579 – FICTION AND ETHNOGRAPHY IN TURKEY**

3 credits.

Critical survey of fiction and ethnography as part of a discourse of interacting genres informed by competing social scientific paradigms and political ideologies. Examines use of Turkish literature as cultural informant but student papers may treat literatures in other languages.

**Requisites:** Jr st**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2010



**LCA 600 – CAPSTONE SEMINAR IN ASIAN HUMANITIES**

3 credits.

An examination of methodological and theoretical issues in Asian humanities, with emphasis on literary, religious, and cultural studies.

**Requisites:** Jr st; LCA major**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**LCA 610 – PROSEMINAR: INTRODUCTION TO TURKIC LINGUISTICS**

3 credits.

Intensive introduction to Turkic philology and the major problems in the diachronic and synchronic study of the Turkic languages; reference tools; and analysis of texts in a number of languages.

**Requisites:** Jr st**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2011**LCA/RELIG ST/SOC 614 – SOCIAL STRUCTURES OF MUSLIM SOCIETIES**

3 credits.

Analysis of legal, religious, familial, educational, and political institutions in Muslim societies, with special attention to the interaction between these institutions and contemporary social and economic processes.

**Requisites:** Intro Soc course (SOC/C&E SOC 140, 181, 210, or 211) or consent of instructor**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2013**LCA 615 – WRITING TRAVELS**

3 credits.

This Global Cultures capstone seminar provides students returning from travel or study abroad an opportunity to employ (or transgress) the literary conventions of travel writing as they structure their own experience of global cultures through the act of writing.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**LCA/RELIG ST 620 – PROSEMINAR: STUDIES IN RELIGIONS OF ASIA**

3 credits.

Historical and structural analysis and discussion of specific topics in one or more religions of Asia.

**Requisites:** So st or LCA/Relig St 273 or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2013**LCA/ART HIST 621 – MAPPING, MAKING, AND REPRESENTING COLONIAL SPACES**

3 credits.

Spatial legacy of colonialism; explores important ways in which the population, landscape, architecture, and urban environment of colonies were mapped, made, and represented, particularly in the 19th and 20th centuries; theoretical and empirical analyses from diverse disciplines and spatial terrain.

**Requisites:** Sr st or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LCA/RELIG ST 623 – YOGA: METHODS AND GOALS**

3 credits.

Explores Yoga techniques propagated in the ancient Indian texts, as well as their adaptations in the Western world.

**Requisites:** So st one crse in S Asian religions or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LCA/RELIG ST 624 – MEDITATION IN INDIAN BUDDHISM AND HINDUISM**

3 credits.

Examines contemplative practices in the two major Indian religions, Buddhism and Hinduism. Covers practices described in ancient texts but also provides an overview of selected modern practices.

**Requisites:** So st one crse in S Asian religions or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**LCA/RELIG ST 626 – GODS AND GODDESSES OF SOUTH ASIA**

3 credits.

Explores the deities of South Asia by examining the development of iconographic concepts and devotional practices associated with the worship of deities.

**Requisites:** So st one crse in S Asian religions or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**LCA/LEGAL ST/RELIG ST 628 – HINDU LAW**

3 credits.

An examination of the nature, history, institutions, and thought of the Hindu legal tradition from its origins ca. 200BCE to the present.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**LCA 630 – PROSEMINAR: STUDIES IN CULTURES OF ASIA**

3 credits.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**LCA/RELIG ST/SOC 634 – SOCIAL STRUCTURE OF INDIA**

3 credits.

Analysis of the major institutions of India with special attention to the relationship between Hindu community organization, caste and the family; the effects of political developments, population growth, industrialization, and urbanization.

**Requisites:** Intro Soc course (SOC/C&E SOC 140, 181, 210, or 211) or consent of instructor

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**LCA 640 – PROSEMINAR IN CENTRAL ASIAN HISTORY**

3 credits.

Introduction to the historiography of the Golden Horde and the Tatar, Kazak, and Uzbek nations; impact on Russia; Russian colonialism in Central Asia; innovative approaches to social and economic history.

**Requisites:** Jr st

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**LCA/RELIG ST 650 – PROSEMINAR IN BUDDHIST THOUGHT**

2-3 credits.

Advanced topics in Buddhist thought. 1 crse in Buddhism strongly recommended

**Requisites:** Jr st or cons inst.

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**LCA/POLI SCI 663 – SOUTH ASIA AND THE GLOBAL SYSTEM: ECONOMY, SECURITY & CULTURE**

3-4 credits.

Examines the effect of international forces on some countries of the South Asia region (India, Pakistan, Sri Lanka, and Afghanistan) as well as how state and societal responses affect the prospects of security, prosperity, and cultural integration in the world.

**Requisites:** Sophomore standing and (POLI SCI 120 or 182) or (POLI SCI 106 or 186 taken prior to fall 2017) or graduate standing

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**LCA 666 – PROSEMINAR: STUDIES IN LITERATURES OF ASIA**

3 credits.

Topics will vary.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**LCA 671 – STRUCTURE OF THAI**

3 credits.

Linguistic introduction to Thai. Prior study of linguistics not required.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**LCA 681 – SENIOR HONORS THESIS**

3 credits.

Individual study and research for honors candidates.

**Requisites:** Consent of instructor**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2013**LCA 682 – SENIOR HONORS THESIS**

3 credits.

Continuation of 681.

**Requisites:** Consent of instructor**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2014**LCA 691 – SENIOR THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2010**LCA 692 – SENIOR THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2010**LCA 699 – DIRECTED STUDY**

1-6 credits.

Graded on a lettered basis: requires cons inst

**Requisites:** Jr or Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2016**LCA/RELIG ST 706 – SEMINAR: TOPICS IN THE HISTORY OF BUDDHISM**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2011**LCA 799 – INDEPENDENT STUDY**

1-6 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LCA 802 – SEMINAR: TOPICS IN RELIGIONS OF ASIA**

3 credits.

Topics in comparative and connected histories of religion in Asia; major thinkers and movements; theoretical and methodological issues; and/or specialized subjects in religious studies.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014**LCA 815 – SEMINAR: INTERDISCIPLINARY APPROACHES TO ASIA**

3 credits.

An overview of current research being done on Asia in a variety of different disciplines.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**LCA 850 – SEMINAR IN TURKIC STUDIES**

3 credits.

Philological study and interdisciplinary analysis of sources written in modern and classical Turkic languages. May not be taken concurrently with LCA Lang 631

**Requisites:** Grad st.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015

**LCA/HISTORY 851 – SEMINAR ON OTTOMAN AND MIDDLE EAST HISTORY**

1-3 credits.

Concepts applicable to the study of social, economic and institutional movements and developments in the area within a broad historical framework.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2008

**LCA/HISTORY 857 – SEMINAR-HISTORY OF INDIA (SOUTH ASIA)**

1-3 credits.

Emphasis upon handling of research problems. Focus upon methods, resources, intellectual approaches, and changing interpretations.

Appropriate language(s).

**Requisites:** Grad st and cons inst.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**LCA 873 – SEMINAR IN LANGUAGES AND LITERATURES OF SOUTH ASIA**

3 credits.

Topics in South Asian languages and literatures.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

**LCA 990 – RESEARCH AND THESIS**

1-12 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**LCA 999 – INDIVIDUAL RESEARCH**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

## LANGUAGES AND CULTURES OF ASIA - LANGUAGES (LCA LANG)

**LCA LANG 301 – FIRST SEMESTER ASIAN LANGUAGE**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2016

**LCA LANG 302 – SECOND SEMESTER ASIAN LANGUAGE**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 2nd semester language course Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2016

**LCA LANG 303 – FIRST SEMESTER BURMESE**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 304 – SECOND SEMESTER BURMESE**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 2nd semester language course Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 305 – FIRST SEMESTER FILIPINO**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LCA LANG 306 – SECOND SEMESTER FILIPINO**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 307 – FIRST SEMESTER HMONG**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LCA LANG 308 – SECOND SEMESTER HMONG**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LCA LANG 309 – FIRST SEMESTER INDONESIAN**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LCA LANG 310 – SECOND SEMESTER INDONESIAN**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr.

**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 311 – FIRST SEMESTER JAVANESE**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2012

**LCA LANG 312 – SECOND SEMESTER JAVANESE**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2009

**LCA LANG 313 – FIRST SEMESTER KHMER**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 314 – SECOND SEMESTER KHMER**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 315 – FIRST SEMESTER LAO**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2014

**LCA LANG 316 – SECOND SEMESTER LAO**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2014**LCA LANG 317 – FIRST SEMESTER THAI**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LCA LANG 318 – SECOND SEMESTER THAI**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**LCA LANG 319 – FIRST SEMESTER VIETNAMESE**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LCA LANG 320 – SECOND SEMESTER VIETNAMESE**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**LCA LANG/AFRICAN 321 – FIRST SEMESTER ARABIC**

4-5 credits.

An important Afro-Asiatic language; description, drills, reading, speaking.  
Open to Fr**Requisites:** 4 cr for Grads, 5 cr for Undergrads (4 cr only Summer).**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LCA LANG/AFRICAN 322 – SECOND SEMESTER ARABIC**

4-5 credits.

Continuation of 321. 4 credits for Grads, 5 credits for Undergrads (4 cr only Summer). Open to Freshmen

**Requisites:** AFRICAN/LCA LANG 321 or consent of instructor.**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LCA LANG/AFRICAN 323 – THIRD SEMESTER ARABIC**

4 credits.

Advanced grammar and conversational practice, reading contemporary Arabic literature and other writings.

**Requisites:** AFRICAN/LCA LANG 322 or cons inst**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LCA LANG/AFRICAN 324 – FOURTH SEMESTER ARABIC**

4 credits.

Continuation of 323.

**Requisites:** AFRICAN/LCA LANG 323 or consent of instructor**Course Designation:** Frgn Lang - 4th semester language course  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LCA LANG 325 – FIRST SEMESTER MALAYALAM**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2009



**LCA LANG 326 – SECOND SEMESTER MALAYALAM**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2009

**LCA LANG/AFRICAN 327 – ELEMENTARY SUMMER IMMERSION ARABIC**

8 credits.

Elementary level Arabic language taught in an 8-week residential summer language immersion format. Open only to students who have been admitted separately to the summer Arabic immersion program.

**Requisites:** Students must be admitted to the summer Arabic immersion program in order to enroll

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**LCA LANG 328 – ELEMENTARY SUMMER IMMERSION PERSIAN**

8 credits.

Elementary level Persian language taught in an 8-week residential summer language immersion format. Open only to students who have been admitted separately to the summer Persian immersion program.

**Requisites:** Students must be admitted to the summer Persian immersion program in order to enroll

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**LCA LANG 329 – ELEMENTARY SUMMER IMMERSION TURKISH**

8 credits.

Elementary level Turkish language taught in an 8-week residential summer language immersion format. Open only to students who have been admitted separately to the summer Turkish immersion program.

**Requisites:** Students must be admitted to the summer Turkish immersion program in order to enroll

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**LCA LANG 331 – FIRST SEMESTER KAZAK**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LCA LANG 332 – SECOND SEMESTER KAZAK**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 333 – FIRST SEMESTER PASHTO**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

**LCA LANG 334 – SECOND SEMESTER PASHTO**

4 credits.

Continuation of first semester in the proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 1st sem crse or equiv, determined by instr

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

**LCA LANG 335 – FIRST SEMESTER PUNJABI**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**LCA LANG 336 – SECOND SEMESTER PUNJABI**

4 credits.

Continuation of first semester in the proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 1st sem crse or equiv, determined by instr

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**LCA LANG 337 – FIRST SEMESTER SINHALA**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2015

**LCA LANG 338 – SECOND SEMESTER SINHALA**

4 credits.

Continuation of first semester in the proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 1st sem crse or equiv, determined by instr

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2015

**LCA LANG 339 – FIRST SEMESTER TURKISH**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Freshmen

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LCA LANG 340 – SECOND SEMESTER TURKISH**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LCA LANG 343 – FIRST SEMESTER UZBEK**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 344 – SECOND SEMESTER UZBEK**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 349 – FIRST SEMESTER BENGALI**

2-4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 350 – SECOND SEMESTER BENGALI**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 351 – FIRST SEMESTER GUJARATI**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2011

**LCA LANG 352 – SECOND SEMESTER GUJARATI**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2011

**LCA LANG 353 – FIRST SEMESTER HINDI**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LCA LANG 354 – SECOND SEMESTER HINDI**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**LCA LANG 359 – FIRST SEMESTER MARATHI**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2016**LCA LANG 360 – SECOND SEMESTER MARATHI**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2016**LCA LANG 361 – FIRST SEMESTER NEPALI**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2008**LCA LANG 362 – SECOND SEMESTER NEPALI**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2008**LCA LANG 363 – FIRST SEMESTER PERSIAN**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Freshmen**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LCA LANG 364 – SECOND SEMESTER PERSIAN**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LCA LANG 365 – FIRST SEMESTER TAMIL**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**LCA LANG 366 – SECOND SEMESTER TAMIL**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017

**LCA LANG 367 – FIRST SEMESTER TELUGU**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2015

**LCA LANG 368 – SECOND SEMESTER TELUGU**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2015

**LCA LANG 369 – FIRST SEMESTER MODERN TIBETAN**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LCA LANG 370 – SECOND SEMESTER MODERN TIBETAN**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 371 – FIRST SEMESTER URDU**

4 credits.

Proficiency at the elementary level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LCA LANG 372 – SECOND SEMESTER URDU**

4 credits.

Continuation of first semester.

**Requisites:** 1st sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 375 – FIRST SEMESTER SANSKRIT**

3-4 credits.

**Requisites:** Open to Freshmen

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 376 – SECOND SEMESTER SANSKRIT**

3-4 credits.

**Requisites:** 1st semester course or equivalent, determined by instructor

**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 401 – THIRD SEMESTER ASIAN LANGUAGE**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem of appropriate language crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**LCA LANG 402 – FOURTH SEMESTER ASIAN LANGUAGE**

4 credits.

Continuation of third semester.

**Requisites:** 3rd sem of appropriate language crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**LCA LANG 403 – THIRD SEMESTER BURMESE**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 404 – FOURTH SEMESTER BURMESE**

4 credits.

Continuation of third semester.

**Requisites:** 3rd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 405 – THIRD SEMESTER FILIPINO**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LCA LANG 406 – FOURTH SEMESTER FILIPINO**

4 credits.

Continuation of third semester.

**Requisites:** 3rd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 407 – THIRD SEMESTER HMONG**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LCA LANG 408 – FOURTH SEMESTER HMONG**

4 credits.

Continuation of third semester.

**Requisites:** 3rd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 409 – THIRD SEMESTER INDONESIAN**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LCA LANG 410 – FOURTH SEMESTER INDONESIAN**

4 credits.

Continuation of third semester.

**Requisites:** 3rd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LCA LANG 411 – THIRD SEMESTER JAVANESE**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instructor

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2009

**LCA LANG 412 – FOURTH SEMESTER JAVANESE**

4 credits.

Continuation of third semester.

**Requisites:** 3rd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2009

**LCA LANG 413 – THIRD SEMESTER KHMER**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 414 – FOURTH SEMESTER KHMER**

4 credits.

Continuation of third semester.

**Requisites:** 3rd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 415 – THIRD SEMESTER LAO**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2015

**LCA LANG 416 – FOURTH SEMESTER LAO**

4 credits.

Continuation of third semester.

**Requisites:** 3rd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2015

**LCA LANG 417 – THIRD SEMESTER THAI**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LCA LANG 418 – FOURTH SEMESTER THAI**

4 credits.

Continuation of third semester.

**Requisites:** 3rd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 419 – THIRD SEMESTER VIETNAMESE**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LCA LANG 420 – FOURTH SEMESTER VIETNAMESE**

4 credits.

Continuation of third semester.

**Requisites:** 3rd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG/AFRICAN 427 – INTERMEDIATE SUMMER IMMERSION ARABIC**

8 credits.

Intermediate level Arabic language taught in an 8-week residential summer language immersion format. Open only to students who have been admitted separately to the summer Arabic immersion program. Students must be admitted to the summer Arabic immersion program in order to enroll

**Requisites:** AFRICAN/LCA LANG 322, or AFRICAN/LCA LANG 327, or equivalent (two semesters of Arabic language).

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017



**LCA LANG 428 – INTERMEDIATE SUMMER IMMERSION PERSIAN**

8 credits.

Intermediate level Persian language taught in an 8-week residential summer language immersion format. Open only to students who have been admitted separately to the summer Persian immersion program. Students must be admitted to the summer Persian immersion program in order to enroll

**Requisites:** LCA LANG 364, or LCA LANG 328, or equivalent (two semesters of Persian language).

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**LCA LANG 429 – INTERMEDIATE SUMMER IMMERSION TURKISH**

8 credits.

Intermediate level Turkish language taught in an 8-week residential summer language immersion format. Open only to students who have been admitted separately to the summer Turkish immersion program. Students must be admitted to the summer Turkish immersion program in order to enroll.

**Requisites:** LCA LANG 340, or LCA LANG 329, or equivalent (two semesters of Turkish language).

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2016

**LCA LANG 431 – THIRD SEMESTER KAZAK**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 432 – FOURTH SEMESTER KAZAK**

4 credits.

Continuation of third semester.

**Requisites:** 3rd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 4th semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 433 – THIRD SEMESTER PASHTO**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2012

**LCA LANG 434 – FOURTH SEMESTER PASHTO**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 3rd sem crse or equiv, determined by instr

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2012

**LCA LANG 435 – THIRD SEMESTER PUNJABI**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**LCA LANG 436 – FOURTH SEMESTER PUNJABI**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 3rd sem crse or equiv, determined by instr

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**LCA LANG 437 – THIRD SEMESTER SINHALA**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

**LCA LANG 438 – FOURTH SEMESTER SINHALA**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 3rd sem crse or equiv, determined by instr

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

**LCA LANG 439 – THIRD SEMESTER TURKISH**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LCA LANG 440 – FOURTH SEMESTER TURKISH**

4 credits.

Continuation of third semester.

**Requisites:** 3rd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 4th semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LCA LANG 443 – THIRD SEMESTER UZBEK**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**LCA LANG 444 – FOURTH SEMESTER UZBEK**

4 credits.

Continuation of third semester.

**Requisites:** 3rd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 4th semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**LCA LANG/AFRICAN 445 – READINGS IN ADVANCED ARABIC TEXTS**

3 credits.

Selection from Quranic and post-Quranic Arabic texts to meet the needs of the students.

**Requisites:** Grad st and cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**LCA LANG/AFRICAN 446 – READINGS IN ADVANCED ARABIC TEXTS**

3 credits.

**Requisites:** Grad st or cons inst required

**Course Designation:** Breadth - Literature. Counts toward the Humanities req  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**LCA LANG 449 – THIRD SEMESTER BENGALI**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem of appropriate language crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 450 – FOURTH SEMESTER BENGALI**

4 credits.

Continuation of third semester.

**Requisites:** 3rd sem of appropriate language crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 4th semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 451 – THIRD SEMESTER GUJARATI**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem of appropriate language crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2011

**LCA LANG 452 – FOURTH SEMESTER GUJARATI**

4 credits.

Continuation of third semester.

**Requisites:** 3rd sem of appropriate language crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 4th semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2011

**LCA LANG 453 – THIRD SEMESTER HINDI**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LCA LANG 454 – FOURTH SEMESTER HINDI**

4 credits.

Continuation of third semester.

**Requisites:** 3rd sem crse or equiv, determined by instr**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**LCA LANG 459 – THIRD SEMESTER MARATHI**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2012**LCA LANG 461 – THIRD SEMESTER NEPALI**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2009**LCA LANG 462 – FOURTH SEMESTER NEPALI**

4 credits.

Continuation of third semester.

**Requisites:** 3rd sem crse or equiv, determined by instr**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2009**LCA LANG 463 – THIRD SEMESTER PERSIAN**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LCA LANG 464 – FOURTH SEMESTER PERSIAN**

4 credits.

Continuation of third semester.

**Requisites:** 3rd sem crse or equiv, determined by instr**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LCA LANG 467 – THIRD SEMESTER TELUGU**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2016**LCA LANG 468 – FOURTH SEMESTER TELUGU**

4 credits.

Continuation of third semester.

**Requisites:** 3rd sem crse or equiv, determined by instr**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2016**LCA LANG 469 – THIRD SEMESTER MODERN TIBETAN**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**LCA LANG 470 – FOURTH SEMESTER MODERN TIBETAN**

4 credits.

Continuation of third semester.

**Requisites:** 3rd sem crse or equiv, determined by instr**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016

**LCA LANG 471 – THIRD SEMESTER URDU**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LCA LANG 472 – FOURTH SEMESTER URDU**

4 credits.

Continuation of third semester.

**Requisites:** 3rd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 473 – THIRD SEMESTER MALAYALAM**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 2nd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**LCA LANG 474 – FOURTH SEMESTER MALAYALAM**

4 credits.

Proficiency at the intermediate level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 3rd sem crse or equiv, determined by instr

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**LCA LANG 475 – THIRD SEMESTER SANSKRIT**

3-4 credits.

**Requisites:** 2nd sem course or equivalent, determined by instructor

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 476 – FOURTH SEMESTER SANSKRIT**

3-4 credits.

**Requisites:** 3rd semester course or equivalent, determined by instructor

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 501 – FIFTH SEMESTER ASIAN LANGUAGE**

3 credits.

Proficiency at the advanced level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 4th sem of appropriate language crse or equiv, determined by instr

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2012

**LCA LANG 503 – FIFTH SEMESTER BURMESE**

3 credits.

Proficiency at the advanced level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 4th sem crse or equiv, determined by instr

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 504 – SIXTH SEMESTER BURMESE**

3 credits.

Continuation of fifth semester.

**Requisites:** 5th sem crse or equiv, determined by instr

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 505 – FIFTH SEMESTER FILIPINO**

3 credits.

Proficiency at the advanced level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 4th sem crse or equiv, determined by instr

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 506 – SIXTH SEMESTER FILIPINO**

3 credits.

Continuation of fifth semester.

**Requisites:** 5th sem crse or equiv, determined by instr**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**LCA LANG 507 – FIFTH SEMESTER HMONG**

3 credits.

Proficiency at the advanced level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 4th sem crse or equiv, determined by instr**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LCA LANG 508 – SIXTH SEMESTER HMONG**

3 credits.

Continuation of fifth semester.

**Requisites:** 5th sem crse or equiv, determined by instr**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LCA LANG 509 – FIFTH SEMESTER INDONESIAN**

3 credits.

Proficiency at the advanced level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 4th sem crse or equiv, determined by instr**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LCA LANG 510 – SIXTH SEMESTER INDONESIAN**

3 credits.

Continuation of fifth semester.

**Requisites:** 5th sem crse or equiv, determined by instr**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**LCA LANG 513 – FIFTH SEMESTER KHMER**

3 credits.

Proficiency at the advanced level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 4th sem crse or equiv, determined by instr**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**LCA LANG 514 – SIXTH SEMESTER KHMER**

3 credits.

Continuation of fifth semester.

**Requisites:** 5th sem crse or equiv, determined by instr**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**LCA LANG 515 – FIFTH SEMESTER LAO**

3 credits.

Proficiency at the advanced level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 4th sem crse or equiv, determined by instr**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2013**LCA LANG 516 – SIXTH SEMESTER LAO**

3 credits.

Continuation of fifth semester.

**Requisites:** 5th sem crse or equiv, determined by instr**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2013**LCA LANG 517 – FIFTH SEMESTER THAI**

3 credits.

Proficiency at the advanced level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 4th sem crse or equiv, determined by instr**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**LCA LANG 518 – SIXTH SEMESTER THAI**

3 credits.

Continuation of fifth semester.

**Requisites:** 5th sem crse or equiv, determined by instr**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**LCA LANG 519 – FIFTH SEMESTER VIETNAMESE**

3 credits.

Proficiency at the advanced level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 4th sem crse or equiv, determined by instr**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LCA LANG 520 – SIXTH SEMESTER VIETNAMESE**

3 credits.

Continuation of fifth semester.

**Requisites:** 5th sem crse or equiv, determined by instr**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**LCA LANG/AFRICAN 527 – ADVANCED SUMMER IMMERSION ARABIC**

8 credits.

Advanced level Arabic language taught in an 8-week residential summer language immersion format. Open only to students who have been admitted separately to the summer Arabic immersion program. Students must be admitted to the summer Arabic immersion program in order to enroll. A placement test may be required for admission

**Requisites:** AFRICAN/LCA LANG 324, or AFRICAN/LCA LANG 427, or equivalent (four semesters of Arabic language).**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2016**LCA LANG 528 – ADVANCED SUMMER IMMERSION PERSIAN**

8 credits.

Advanced level Persian language taught in an 8-week residential summer language immersion format. Open only to students who have been admitted separately to the summer Persian immersion program. Students must be admitted to the summer Persian immersion program in order to enroll. A placement test may be required for admission

**Requisites:** LCA LANG 464, or LCA LANG 428, or equivalent (four semesters of Persian language).**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**LCA LANG 529 – ADVANCED SUMMER IMMERSION TURKISH**

8 credits.

Advanced level Turkish language taught in an 8-week residential summer language immersion format. Open only to students who have been admitted separately to the summer Turkish immersion program. Students must be admitted to the summer Turkish immersion program in order to enroll. A placement test may be required for admission

**Requisites:** LCA LANG 440, or LCA LANG 429, or equivalent (four semesters of Turkish language).**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**LCA LANG 531 – FIFTH SEMESTER KAZAK**

3 credits.

Proficiency at the advanced level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 4th sem crse or equiv, determined by instr**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**LCA LANG 532 – SIXTH SEMESTER KAZAK**

3 credits.

Continuation of fifth semester.

**Requisites:** 5th sem crse or equiv, determined by instr**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**LCA LANG 539 – FIFTH SEMESTER TURKISH AND AZERI**

3 credits.

Proficiency at the advanced level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 4th sem crse or equiv, determined by instr**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**LCA LANG 540 – SIXTH SEMESTER TURKISH AND AZERI**

3 credits.

Continuation of fifth semester.

**Requisites:** None**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017



**LCA LANG 553 – FIFTH SEMESTER HINDI**

3-4 credits.

Proficiency at the advanced level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** LCA LANG 454

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LCA LANG 554 – SIXTH SEMESTER HINDI**

3-4 credits.

Continuation of fifth semester.

**Requisites:** LCA LANG 553

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 557 – FIFTH SEMESTER TIBETAN**

4 credits.

Proficiency at the advanced level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 4th sem crse or equiv, determined by instr

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**LCA LANG 558 – SIXTH SEMESTER TIBETAN**

4 credits.

Proficiency at the advanced level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 5th sem crse or equiv, determined by instr

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**LCA LANG 563 – FIFTH SEMESTER PERSIAN**

3 credits.

Proficiency at the advanced level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** 4th sem crse or equiv, determined by instr

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LCA LANG 564 – SIXTH SEMESTER PERSIAN**

3 credits.

Continuation of fifth semester.

**Requisites:** 5th sem crse or equiv, determined by instr

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LCA LANG 571 – FIFTH SEMESTER URDU**

3-4 credits.

Proficiency at the advanced level in listening, speaking, reading and writing, using communicative approaches.

**Requisites:** LCA LANG 472

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LCA LANG 572 – SIXTH SEMESTER URDU**

3-4 credits.

Continuation of fifth semester.

**Requisites:** LCA LANG 571

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LCA LANG 601 – SEVENTH SEMESTER ASIAN LANGUAGE**

3 credits.

Proficiency at the advanced high level in listening, speaking, reading and writing, using communicative approaches. Open to Fr

**Requisites:** 6th semester course or equivalent, determined by instructor.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**LCA LANG 602 – EIGHTH SEMESTER ASIAN LANGUAGE**

3 credits.

Proficiency at the advanced high level in listening, speaking, reading and writing, using communicative approaches. Open to Fr

**Requisites:** 7th semester course or equivalent, determined by instructor.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**LCA LANG 616 – MODERN THAI LITERATURE: THE NOVEL**

3 credits.

The origin and development of the novel in Thai, for advanced students.

**Requisites:** 6th sem crse or equiv, determined by instr

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2013

**LCA LANG 617 – THAI POETRY**

3 credits.

Introduction to major earlier forms of Thai poetry.

**Requisites:** 6th sem crse or equiv, determined by instr

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2012

**LCA LANG 618 – THAI PROSE LITERATURE: THE SHORT STORY**

3 credits.

The origins and development of the short story in modern Thai.

**Requisites:** 6th sem crse or equiv, determined by instr

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2012

**LCA LANG 631 – ADVANCED READINGS IN TURKIC LANGUAGES**

3 credits.

**Requisites:** 6th sem of a Turkic lang crse or equiv, determined by instr

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2014

**LCA LANG 644 – READINGS IN OTOMAN TURKISH AND CHAGATAY**

3 credits.

Introduction to the Arabic script; grammatical features of Middle Turkic; study of texts in Ottoman Turkish, Chagatay, and later literary dialects (Arabic-script Turkish, Azeri, Uzbek, Tatar).

**Requisites:** 6th sem of a Turkic lang or equiv, determined by instr

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**LCA LANG 648 – ADVANCED READINGS IN PALI LITERATURE**

3 credits.

Offers students the opportunity to read and discuss Theravada Buddhist scriptural and commentarial literature in Pali.

**Requisites:** Cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**LCA LANG 653 – ADVANCED READINGS IN HINDI LANGUAGE**

3 credits.

**Requisites:** 6th sem crse or equiv, determined by instr

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**LCA LANG 654 – ADVANCED READINGS IN HINDI LITERATURE**

3 credits.

**Requisites:** 6th sem crse or equiv, determined by instr

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

**LCA LANG 671 – ADVANCED READINGS IN URDU LANGUAGE**

3 credits.

**Requisites:** 6th sem crse or equiv, determined by instr

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2006

**LCA LANG 675 – ADVANCED READINGS IN SANSKRIT**

3 credits.

**Requisites:** 4th sem crse or equiv, determined by instr

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**LCA LANG 677 – ADVANCED READINGS IN TIBETAN**

3 credits.

Readings in a wide variety of genres from various historical periods; texts include cursive manuscripts.

**Requisites:** 4th sem crse or equiv, determined by instr

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**LCA LANG 800 – METHODS, THEORIES, & PROFESSIONAL DEVELOPMENT IN ASIAN HUMANITIES**

3 credits.

Examines current methods and theories in the study of Asian humanities through the creation of products commonly required in professional settings; mandatory for incoming graduate students in LCA.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**LATIN (CLASSICS) (LATIN)****LATIN 103 – ELEMENTARY LATIN**

4 credits.

Forms and syntax, with simple translation, equiv to a year of high school Latin.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LATIN 104 – ELEMENTARY LATIN**

4 credits.

Translation of easy prose; analysis of English derivatives. Open to Freshmen

**Requisites:** LATIN 103.

**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LATIN 203 – INTERMEDIATE LATIN**

4 credits.

Brief review of Latin grammar and vocabulary. Extensive reading from several authors. Open to Fr

**Requisites:** LATIN 104 or appropriate placement score.

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LATIN 204 – INTRODUCTION TO LATIN LITERATURE**

4 credits.

Close literary analysis of the structure, style, and language of several Roman poets and prose writers. A critical rather than a purely historical approach to these authors. Open to Freshmen

**Requisites:** LATIN 203.

**Course Designation:** Breadth - Humanities

Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LATIN 301 – LATIN LITERATURE OF THE ROMAN REPUBLIC**

3 credits.

Writers of the Republic studied in a historical and cultural context.

**Requisites:** LATIN 204 or appropriate placement score

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LATIN 302 – LATIN LITERATURE OF THE ROMAN EMPIRE**

3 credits.

Writers of the Augustan period and the Empire studied in a historical and cultural context.

**Requisites:** LATIN 301 or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LATIN 391 – LATIN FOR GRADUATE READING KNOWLEDGE I**

3 credits.

Intensive grammar and reading course for graduate students.

**Requisites:** Grad st or cons inst

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LATIN 392 – LATIN FOR GRADUATE READING KNOWLEDGE II**

3 credits.

Continuation of LATIN 391.

**Requisites:** LATIN 391 or cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**LATIN 505 – ELEMENTARY PROSE COMPOSITION**

3 credits.

Survey of Latin syntax and idioms.

**Requisites:** LATIN 301 and 302 or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**LATIN 515 – VERGIL**

3 credits.

**Requisites:** LATIN 301 and 302 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**LATIN 519 – LATIN POETRY**

3 credits.

Latin poetry of the Republic and/or Empire.

**Requisites:** LATIN 302 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**LATIN 520 – ROMAN DRAMA**

3 credits.

**Requisites:** LATIN 301 and 302 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014**LATIN 521 – ROMAN ELEGY**

3 credits.

One or a combination of: Catullus, Tibullus, Propertius, Ovid, later elegiac poets.

**Requisites:** LATIN 302 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**LATIN 522 – ROMAN LYRIC POETRY**

3 credits.

Roman lyric poetry of one or a combination of the following: Horace, Statius, later lyric poets.

**Requisites:** LATIN 302 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LATIN 523 – ROMAN SATIRE**

3 credits.

One or a combination of: fragments of Lucilius; Horace; Persius, Juvenal; later satire poets.

**Requisites:** LATIN 302 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**LATIN 524 – ROMAN NOVEL**

3 credits.

One or a combination of: Petronius, *Cena Trimalchionis*, *Satyricon*; Apuleius, *Cupid and Psyche*, *Metamorphoses*; other Roman novels.**Requisites:** LATIN 302 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**LATIN 539 – LATIN HISTORICAL WRITERS**

3 credits.

One of the following: (a) Cicero, *Epistles*, (b) Pliny, *Epistles*, (c) Caesar, (d) Sallust, (e) Livy, (f) post Augustan historians, (g) historians of the late Empire.**Requisites:** LATIN 302 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017

**LATIN 549 – LATIN PHILOSOPHICAL WRITERS**

3 credits.

One of the following: (a) Cicero's philosophical works, (b) Seneca, (c) Latin patristic writers.

**Requisites:** LATIN 302 or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**LATIN 559 – LATIN ORATORY**

3 credits.

One of the following: (a) Cicero, Orations, (b) Roman rhetoric.

**Requisites:** LATIN 302 or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2011

**LATIN/MEDIEVAL 563 – MEDIAEVAL LATIN**

3 credits.

**Requisites:** LATIN 204 or appropriate placement score

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2014

**LATIN 681 – HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2005

**LATIN 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2006

**LATIN 691 – SENIOR THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 1999

**LATIN 692 – SENIOR THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2000

**LATIN 699 – DIRECTED STUDY**

1-3 credits.

Graded on a lettered basis; requires cons inst

**Requisites:** Jr or Sr st.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**LATIN 801 – GRADUATE SURVEY**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**LATIN 890 – INDIVIDUAL RESEARCH THESIS**

1-12 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**LATIN 910 – SEMINAR-POETRY**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LATIN 930 – SEMINAR-ROMAN HISTORY**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**LATIN 940 – SEMINAR-PHILOSOPHY**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2010**LATIN 950 – SEMINAR-ORATORY**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016

## LATIN AMERICAN, CARIBBEAN, AND IBERIAN STUDIES (LACIS)

**LACIS/AFROAMER/ANTHRO/C&E SOC/GEOG/HISTORY/POLI SCI/SOC/SPANISH 260 – LATIN AMERICA: AN INTRODUCTION**

3-4 credits.

Latin American culture and society from an interdisciplinary perspective; historical developments from pre-Columbian times to the present; political movements; economic problems; social change; ecology in tropical Latin America; legal systems; literature and the arts; cultural contrasts involving the US and Latin America; land reform; labor movements; capitalism, socialism, imperialism; mass media.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LACIS/CHICLA/HISTORY/POLI SCI 355 – LABOR IN THE AMERICAS: US & MEXICO IN COMPARATIVE & HISTORICAL PERSPECTIVE**

3 credits.

Provides a critical examination of the history of labor and working people in the Americas, from the colonial era to the present. It focuses on the experience of the United States and Mexico, offering a comparative perspective on their distinct but also shared (and increasingly linked) histories. The seminar proceeds chronologically, highlighting major episodes in the evolution of labor systems in the two countries, beginning with the colonial labor systems implemented by the Spanish and British empires following the European conquest of the Western Hemisphere. Among other topics, we will examine the pivotal role of slavery and other forms of forced labor, the impact of the industrial revolution, the emergence and expansion of corporate capitalism and the labor unrest it provoked in the post-civil war U.S., the role of labor in the Mexican Revolution and its aftermath, the impact of the Great Depression and labor incorporation on the post-WWII social and political order of both countries, the breakdown of that order and the move to neo-liberalism in the 1970s and 1980s, and the emergence of an increasingly integrated North American production system and its consequences for labor and working people on both sides of the US-Mexico border.

**Requisites:** Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**LACIS/ANTHRO 361 – ELEMENTARY QUECHUA**

4 credits.

Phonology and morphology; concentration on the acquisition of conversational skills; reading of texts of graded difficulty; three hours classroom and one hour lab.

**Requisites:** Open to Fr**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LACIS/ANTHRO 362 – ELEMENTARY QUECHUA**

4 credits.

Continuation of 361. Open to Fr

**Requisites:** ANTHRO/LACIS 361 or cons inst.**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017



**LACIS/ANTHRO 363 – INTERMEDIATE QUECHUA**

4 credits.

Advanced morphology and syntax; advanced conversation and composition; cultural background of Quechua speaking peoples through reading of myths, legends and folktales.

**Requisites:** ANTHRO/LACIS/ANTHRO 362

**Course Designation:** Frgn Lang - 3rd semester language course  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LACIS/ANTHRO 364 – ADVANCED QUECHUA**

4 credits.

Continuation of advanced conversation and composition; cultural background of Quechua-speaking peoples through reading of myths, legends, folktales; problems in dialectology.

**Requisites:** ANTHRO/LACIS 363 or cons inst

**Course Designation:** Frgn Lang - 4th semester language course  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LACIS/ANTHRO 376 – FIRST SEMESTER YUCATEC MAYA**

4 credits.

Introduction to Yucatec Maya language. Focus on acquiring vocabulary and grammar for basic conversational proficiency. Taught through in-class oral and aural exercises, language tapes, and primary texts. Students also learn about Maya culture, history, folklore, and language politics.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Humanities  
Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LACIS/ANTHRO 377 – SECOND SEMESTER YUCATEC MAYA**

4 credits.

Continued introduction to Yucatec Maya language. Focus on acquiring vocabulary and grammar for basic conversational proficiency. Taught through in-class oral and aural exercises, language tapes, and primary texts. Students also learn about Maya culture, history, folklore, and language politics. Open to Fr

**Requisites:** ANTHRO/LACIS 376.

**Course Designation:** Breadth - Humanities  
Frgn Lang - 2nd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LACIS 440 – TOPICS IN LATIN AMERICAN, CARIBBEAN, AND IBERIAN STUDIES**

1-4 credits.

An examination of specific topics related to the Latin American, Caribbean, and Iberian region. Topics vary each semester, but may include specific themes in history, literature, media, political science, sociology, culture, politics, social work, and agriculture.

**Requisites:** Jr st or cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LACIS 681 – SENIOR HONORS THESIS**

3 credits.

Individual study and research for majors writing theses for honors degree.

**Requisites:** Senior majors writing honors thesis consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2016**LACIS 682 – SENIOR HONORS THESIS**

3 credits.

Individual study and research for majors writing theses for honors degree. Sr majors writing honors thesis consent of instructor

**Requisites:** LACIS 681.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2011**LACIS 698 – DIRECTED STUDY**

1-6 credits.

An independent studies course to allow students at an advanced level to pursue individual projects.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2013**LACIS 699 – DIRECTED STUDY**

1-6 credits.

An independent studies course to allow students at an advanced level to pursue individual projects.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**LACIS/A A E/ANTHRO/C&E SOC/GEOG/HISTORY/POLI SCI/PORTUG/SOC/SPANISH 982 – INTERDEPARTMENTAL SEMINAR IN THE LATIN-AMERICAN AREA**

1-3 credits.

Interdisciplinary inquiry in Latin American society and culture.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LAW (LAW)****LAW/ACCT I S 329 – TAXATION: CONCEPTS FOR BUSINESS AND PERSONAL PLANNING**

3 credits.

An introduction to the U.S. income taxation concepts with emphasis on business and personal planning strategies. Taxes are placed in a framework which considers all costs of doing business. Includes approaches and skills needed to prepare individual, corporate, and partnership income tax returns.

**Requisites:** Must have completed Accounting 100 or 300 or LAW 811**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAW 601 – INTRODUCTION TO AMERICAN LAW**

3 credits.

An introduction to the American common law tradition and to the American legal system, especially for foreign law students and foreign and American graduate students.

**Requisites:** Admission to MLI prgm or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAW 602 – LEGAL SOURCES**

3 credits.

Overview of the institutions and entities that create legal documents in the U.S.; how these documents are organized and found in a law library; introduction to common law case analysis.

**Requisites:** Admission to MLI prgm or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAW 603 – LEGAL WRITING (LL.M.-L.I.)**

3 credits.

An intensive course in legal analysis and the organization and writing of common legal documents.

**Requisites:** LAW 602 or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2011**LAW/LEGAL ST/SOC 641 – SOCIOLOGY OF LAW**

3-4 credits.

Theory and research on the social origins, processes and effects of law; examination of law-related behavior, legal institutions, law and social structure, and law and social change; linkage to contemporary theoretical and political debates.

**Requisites:** Junior standing and either SOC 441 or SOC/C&E SOC 475, or Law student**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2017**LAW 711 – CONTRACTS I**

3-4 credits.

Creation of promissory liability; interpretation of words and conduct; exchange, reliance or formality as necessary for creation of promissory liability; remedies for breach of contract; unfairness as a reason for avoiding contractual liability.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAW 713 – LEGAL PROCESS**

3-4 credits.

Function, sources, and development of law, focusing upon the administrative, legislative, and judicial processes and their interrelations; law-making institutions in action as they are called upon to handle social problems.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2011**LAW 714 – CIVIL PROCEDURE I**

4 credits.

Development of the modern civil action including pleading, discovery, and the pretrial conference; the trial; motions after verdict and judgment; appeals; state and federal procedures.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAW 715 – TORTS I**

3-5 credits.

A tort is roughly defined as a civil wrong, independent of contract: liability for physical and emotional harms inflicted by intentional misconduct or negligence, or without fault, and development of concepts and techniques in analyzing and solving tort problems.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**LAW 721 – CONTRACTS II**

2-4 credits.

Nature of the obligations assumed by entering a contract; the power of parties to control this obligation; rights of those not a party to a contract.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LAW 723 – LEGAL RESEARCH AND WRITING**

3 credits.

Legal research and legal bibliography, techniques of writing, organizing legal material, analyzing facts, and determining and predicting rules of law; library and computerized research; memoranda and brief writing; oral argument in moot court; small group critiques.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**LAW 724 – PROPERTY**

4-5 credits.

Foundation for advanced courses. Personal property and real property (land law); concepts of ownership and transfer of chattels (personal property), such as bailments, liens, pledges and gifts; historical introduction to law of real property precedes detailed study of nature of various ownership interests in land, called estates; landlord-tenant law; some preliminary treatment of land transfer (conveyancing).

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LAW 725 – INTRODUCTION TO CRIMINAL PROCEDURE**

3 credits.

Various aspects of criminal procedure and criminal justice administration. Constitutional limitations upon criminal justice practices.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAW 726 – INTRODUCTION TO SUBSTANTIVE CRIMINAL LAW**

3-4 credits.

Problems in defining what conduct should be subject to criminal penalties; the limitations of criminal law as a means for prevention and control of undesirable conduct.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAW 730 – FEDERAL LAW AND INDIAN TRIBES**

2-3 credits.

The study of the relationships between Federal, state, and tribal governments, the source and scope of their respective sovereignties, and time.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAW 731 – CONSTITUTIONAL LAW I**

3-4 credits.

Powers of government, state and federal, under the Constitution of the United States; relations between federal and state authority (e.g., taxation and regulation of interstate commerce); relations between branches of the federal government; limitations on governmental authority by virtue of a distribution of power.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAW 732 – REAL ESTATE TRANSACTIONS I**

3-4 credits.

Basic legal elements of real estate transfer and finance; options, binder contracts, requirements as to writing, rights and duties between vendor and vendee, basic land contract and mortgage law and remedies, and the real estate recording system.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAW 733 – TRUSTS AND ESTATES**

3-4 credits.

Basic probate and nonprobate devices for management and transmission of property in the family context. Includes consideration of Wisconsin's marital (community) property system, federal gift and estate tax issues, and nonproperty considerations in estate planning.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**LAW 735 – PAYMENTS SYSTEMS**

3 credits.

Articles 3, 4, and 5 of the Uniform Commercial Code: negotiable instruments, bank collection systems, and letters of credit.

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LAW 736 – SECURED TRANSACTIONS**

3 credits.

Focuses on Article 9 of the Uniform Commercial Code, Secured Transactions; with some additional emphasis on Article 6, Bulk Sales; and Article 7, Documents of Title.

**Requisites:** None**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAW 739 – RELIGION AND THE CONSTITUTION**

2-3 credits.

This course covers the Free Exercise Clause and the Establishment Clause of the First Amendment to the U.S. Constitution.

**Requisites:** LAW 731**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**LAW 740 – CONSTITUTIONAL LAW II**

2-4 credits.

Rights of citizens against state and federal governments; the nature of due process and the equal protection of the law; the protection of freedom from invidious discrimination; the Civil Rights Acts; freedoms of expression, association, and religion.

**Requisites:** LAW 731**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAW 741 – BUSINESS ORGANIZATIONS II: PUBLICLY HELD CORPORATIONS**

3-4 credits.

Law of business corporations; problems of control, management, and procurement and maintenance of capital; an introduction to securities regulation.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAW 742 – TAXATION I**

3-5 credits.

Federal income taxation; basic rules, theory and policy.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAW 743 – NEGOTIATIONS**

2-4 credits.

Examines a range of processes encountered by lawyers, including negotiation of, inter alia, injury claims, criminal charges, family disputes, and commercial disputes, as well as participation of their parties (mediators, judges).

**Requisites:** Adv st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAW 744 – ADMINISTRATIVE LAW**

3 credits.

Role of the administrative process in society; emphasizes common powers and procedures; relationships among the legislative, judicial, executive and administrative agencies in the development of public policy.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAW 745 – LABOR RELATIONS LAW**

3 credits.

Regulation of organization and representation of employees; collective bargaining, and employer and union practices; proceedings under the National Labor Relations Act and related federal statutes and analogous state acts.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAW 746 – LEGISLATION**

3 credits.

Use of statutes and legislative materials in litigation and decision; problems of the lawyer in the interpretation of statutes, in representation of the client before legislative bodies, and in the presentation and argument of statutory authorities to a court.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAW 747 – PROTECTIVE LABOR LEGISLATION**

3 credits.

Legal protection of individual workers against discrimination, physical damage, economic exploitation and insecurity through Fair Employment Practices, Workmen's Compensation, Fair Labor Standards, Unemployment Compensation, Social Security and similar legislation.

**Requisites:** None**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2012

**LAW 748 – ANTITRUST**

3-4 credits.

Law relating to trade regulation and competitive practices; anti-trust and comparable laws dealing with monopoly, restraint of trade, and unfair methods of competition.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LAW 749 – TRADEMARKS**

2-3 credits.

Practical introduction to a neglected but socially and economically important field. Interaction of a developing common and federal law with the behavior and interests of businesspersons and consumers.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LAW 751 – PATENT LAW**

2-4 credits.

Survey of the law of industrial property, including the law of patents and trade secrets.

**Requisites:** Adv st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAW 752 – COPYRIGHT LAW**

2-4 credits.

Survey of state and federal laws affecting literary, musical, and artistic property.

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LAW 753 – INTRODUCTION TO INTELLECTUAL PROPERTY LAW**

3-4 credits.

Survey of the laws of patents, copyrights, trade secrets, trademarks. Discussion of relationship of these laws to the laws of property, trade regulation, and privacy. Exploration of competing or complementary policy rationales for each intellectual property area.

**Requisites:** Completion of required 1st yr law crses, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAW 760 – ROLE OF THE POLICE IN A FREE SOCIETY**

3 credits.

Major problems especially in large urban areas. Specific aspects of the police function, such as their role in responding to serious deviant conduct, to self-destructive behaviour, to community conflict, and to the need for protecting constitutional rights and democratic processes. Problems that arise in defining police authority, in reviewing and controlling police discretion, and in seeking to achieve accountability of the police to the citizenry.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAW 765 – EQUAL EMPLOYMENT LAW**

3-4 credits.

The growth, development, and implementation of equal employment opportunity law.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**LAW/MED SC-M/NURSING 768 – CONSUMER HEALTH ADVOCACY AND PATIENT-CENTERED CARE CLINICAL**

1-7 credits.

Interdisciplinary health advocacy clinical supervised by diverse professional staff. Provide broad advocacy to patients with life-threatening and serious chronic illnesses. Advocacy topics include: medical decision-making, insurance, medical debt, disability issues. Weekly discussions of patient cases and related guest lectures.

**Requisites:** Graduate or Professional standing or acceptance in Capstone Certificate in Consumer Health Advocacy

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**LAW/MED SC-M/NURSING 769 – CONSUMER ISSUES IN HEALTH CARE**

1-3 credits.

Explores consumer issues in health care delivery in interdisciplinary discussion-based format. Covers current delivery system, expenditures/finance, managed care/insurance, barriers to access, reform, and other select topics. Ideal for future healthcare providers and others interested in patients' experiences.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**LAW 771 – SELECTED TOPICS IN ESTATE PLANNING**

1-3 credits.

Intermediate and advanced topics in estate planning; topics reflect interests of available faculty and students.

**Requisites:** LAW 733 others as specified by instr

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**LAW 772 – THE USE OF TRUSTS IN ESTATE PLANNING**

2-3 credits.

Survey of common uses of trusts in estate planning, with a focus on drafting of appropriate provisions to accomplish estate planning objectives.

**Requisites:** LAW 733

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LAW 773 – LAW AND THE ELDERLY**

2-3 credits.

This course addresses the issues faced by elderly clients and their families and caregivers in the context of legal, medical, social and regulatory concerns.

**Requisites:** LAW 733 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**LAW 801 – EVIDENCE**

4 credits.

Concepts of relevancy and policy in admission of evidence; hearsay, opinions, and other exclusionary rules; examination of witnesses, judicial notice, and procedural considerations.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAW 802 – CIVIL PROCEDURE II**

3-4 credits.

Jurisdiction of courts, state and federal; joinder of claims and parties in civil action, and effect of judgments.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAW 808 – ADVANCED LEGAL WRITING**

2-3 credits.

Preparation of legal documents in connection with a real or simulated legal problem. Emphasis on legal problems involving writing experiences different from those gained in Legal Writing I.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**LAW 811 – ACCOUNTING AND LAW**

3 credits.

Principles of accounting for lawyers. Election in the second year preferable, prior to Corporation Law and Taxation. Students with college accounting take the course for credit only with cons inst.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAW 814 – APPELLATE ADVOCACY I**

2-3 credits.

Lectures and discussions in basics of brief writing and oral advocacy.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2011

**LAW 815 – APPELLATE ADVOCACY II**

1-3 credits.

Students participate in moot court tournaments in which, as representatives of the Law School, they engage in regional and national brief-writing and oral-advocacy competitions against students of other law schools.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**LAW 817 – BUSINESS ORGANIZATIONS I**

3-4 credits.

Law of employment, agency, partnership, limited partnership, and other types of unincorporated associations.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAW 818 – COMPARATIVE LAW**

2-3 credits.

Civil law system, including its Roman Law antecedents, codification movement, and responses to selected current issues. Focus usually on the law of a single polity to encourage the viewing of law in its societal setting.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015



**LAW 820 – CONFLICT OF LAWS**

3-4 credits.

Rules applied by courts in recognizing and enforcing rights involving elements which occurred in a sister state or foreign country.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LAW 821 – BANKRUPTCY LAW**

2-4 credits.

Consumer credit regulation, enforcement of judgments, attachments, garnishments, fraudulent conveyances, assignments for the benefit of creditors, and bankruptcy.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LAW/SOC WORK 822 – FAMILY LAW: MARRIAGE AND DIVORCE**

2-4 credits.

Marriage and less formal spousal relationships, husband-wife relationships in on-going marriage; divorce and its economic and custody consequences; post-divorce relationships.

**Requisites:** Cons inst required for Social Work

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LAW/SOC WORK 823 – FAMILY LAW: PARENT AND CHILD**

3-4 credits.

The relationship of parent and child; the rights of unmarried mothers and fathers and their children; parental rights to custody vis a vis third parties; parents' rights to make decisions affecting children; neglect; termination of parental rights; the foster care system and adoption.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**LAW 824 – FEDERAL JURISDICTION**

3 credits.

Legal problems that arise because our court system derives from both nation and states as separate sources of authority and is administered by federal and state judiciaries; jurisdiction of the federal courts (including questions of venue, process and litigating capacity, jurisdictional amount, and removal jurisdiction); relation of these courts to state courts; relationship of federal and state law, both as guides to judicial decision and in everyday affairs.

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LAW 825 – INSURANCE LAW**

3-4 credits.

Substantive law of property, life and liability insurance, including study of the fire and automobile forms; regulation of insurance companies, policies and practices. Rights and obligations of compensated sureties sometimes covered.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAW 827 – INTERNATIONAL LAW**

2-3 credits.

Problems in private and governmental practice affected by international relations; the law applicable to questions of recognition and non-recognition of governments and nations; interpretation of treaties and other international agreements; jurisdiction of nations; effect of peace and war; formation, operation and function of various international agreements, and matters of international claims.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LAW 828 – INTERNATIONAL TRANSACTIONS**

2-3 credits.

Problems inherent in international commercial transactions; risks, benefits, and assumptions underlying business with or in a foreign country; international commercial transactions, investments and claims.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LAW 829 – JURISPRUDENCE**

2-3 credits.

Philosophies of law; surveys of analytical, sociological and ethical approaches to law and legal systems.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**LAW/URB R PL 830 – LAND USE CONTROLS**

3 credits.

Limitations imposed upon the use of privately owned land by the court-made law of nuisance, by private covenant, and by public action; master plan, official map, subdivision regulation, zoning, and urban redevelopment.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LAW 837 – REGULATED INDUSTRIES**

2-3 credits.

Various aspects of regulation—control over price, supply and services—of different industries; public utilities and the transportation industries; interaction between the legislature, administrative agencies, and courts in development of regulatory policy.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**LAW 838 – REAL ESTATE TRANSACTIONS II**

2-3 credits.

Law of real estate finance, planning, and development, including tax and organizational aspects.

**Requisites:** LAW 732 and LAW 742 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LAW 839 – REMEDIES**

2-3 credits.

Remedies of quasi-contract, constructive trust, equitable lien, reformation, etc., to redress enrichment obtained by tort, part performance of contract, duress, or mistake, or under other circumstances making its retention without such redress unfair.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**LAW 840 – TAXATION II**

2-4 credits.

Advanced problems in federal income taxation; difficult, complex problems peculiar to corporations and shareholders—generally, the tax consequences of corporate organization, reorganization, and liquidation, of various kinds of distributions to shareholders, etc.; scope sufficiently narrow to permit thorough and rigorous study of relevant tax concepts and materials.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LAW 843 – UNFAIR TRADE PRACTICES**

3 credits.

Laws concerning methods of competition in business, with reference to the responsibilities of administrative agencies; trademarks, unfair competition, price maintenance, price discrimination.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**LAW 844 – TAXATION OF TRUSTS AND ESTATES**

2-4 credits.

Federal estate and gift taxes, including the determination of the gross estate, life insurance, joint ownerships, powers of appointment, charitable and marital deductions, gifts to minors, income tax problems, simple and complex trusts, grantor trusts, income and deductions in respect of a decedent, problems of basis, throwback rules.

**Requisites:** LAW 742, 733-734 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**LAW 845 – WATER RIGHTS LAW**

2-3 credits.

Acquisition and nature of private rights in water comparing the riparian and appropriation legal systems; public rights as limitations on private rights, the firming up of rights by grant, contract, compulsory purchase and prescription and the administrative systems for water quality management.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAW 848 – INTRODUCTION TO ENVIRONMENTAL LAW**

3 credits.

Policy, administration and adjudication related to the environmental complex of population, environmental quality and resource development. Common-law doctrine applied and statutory measures adopted by Wisconsin and by the federal government to protect the public interest in resource preservation and management.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**LAW 849 – PRE-TRIAL ADVOCACY**

3 credits.

This course teaches students about the lawyering skills on which litigators spend the vast majority of their time; i.e. skills pertinent to the pre-trial phase of a lawsuit. It uses simulation exercises and extensive feedback from experienced practitioners.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAW 850 – PROFESSIONAL RESPONSIBILITIES**

1-3 credits.

The ethical and professional responsibility of practicing lawyers.

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAW 852 – TRIAL ADVOCACY**

2-4 credits.

Techniques involved in the examination of witnesses, including the lawyer's preparation, the preparation conference with the witness, direct examination, cross examination, objections, and the introduction of exhibits. Teaching methods include demonstrations by trial lawyers and practice sessions by the students under the supervision of trial lawyers.  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Fall 2017

**LAW 854 – CLINICAL PROGRAM**

1-7 credits.

See description under Special Programs in chapter on Law Curriculum.  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Fall 2017

**LAW 858 – COLLECTIVE BARGAINING: THE ARBITRATION PROCESS**

3 credits.

Legal and economic aspects of current issues in collective bargaining.  
**Requisites:** Graduate or professional standing  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2016

**LAW 860 – ADVANCED CRIMINAL PROCEDURE**

2-3 credits.

Various important procedural problems arising in federal and state criminal proceedings.  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Fall 2017

**LAW 862 – LEGAL ASSISTANCE TO INSTITUTIONALIZED PERSONS**

1-7 credits.

A 'law-in-action' course. Student gains an understanding of institutional programs for convicted criminal offenders and confined mental health patients; interviews newly admitted inmates or mental patients. These interviews determine whether there are aspects of each person's conviction or commitment, his or her current institutional treatment, or relationship with the outside world, which need the assistance of a legally trained person. An opportunity to develop interviewing, analytical, writing, and problem-solving abilities.  
**Requisites:** None  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Fall 2017

**LAW 863 – LITIGATION IN CRIMINAL CASES**

3-4 credits.

An analysis, through lecture and oral argument, of several of the major pre-trial and trial subconstitutional issues of criminal litigation as well as several issues of constitutional dimension not covered in the conventional criminal law courses.  
**Requisites:** LAW 725 726  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2009

**LAW 867 – TAXATION III**

2-4 credits.

Survey of advanced issues in the federal income taxation of business and investment entities. Emphasizes problems encountered in common business and investment transactions, and explores practical and ethical solutions to such problems.  
**Requisites:** LAW 742 840  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2011

**LAW 868 – STATE AND LOCAL TAXATION**

2-4 credits.

Survey of state and local tax law, principally income taxes, sales and use taxes, and property taxes. Explores the typical statutory structures under which these taxes are imposed. Significant emphasis will be given to policy issues faced by state and local governmental bodies.  
**Requisites:** LAW 742  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2016

**LAW 870 – INTERNATIONAL TAX**

3 credits.

International taxation concepts and issues including jurisdiction rules, tax avoidance and evasion, fiscal relations between industrialized countries and less developed countries; host country taxation of foreign persons and home country taxation of foreign income.  
**Requisites:** LAW 742 required; LAW 840 recommended  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Spring 2017

**LAW 871 – INTERNATIONAL TRADE LAW**

3 credits.

Legal institutions affecting international transactions with a focus on U.S. laws and the principal treaties involved. Topics include the international impact of U.S. securities, antitrust and intellectual property laws, various trade laws of the U.S. and other countries, and the effects of treaties.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAW 872 – LEGAL ISSUES INVOLVING NORTH AMERICA AND EAST ASIA**

2 credits.

Public and private laws affecting international trade and investment flows between North America and East Asia as well as other issues that affect relations between the countries.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LAW 873 – IMMIGRATION LAW**

3 credits.

Survey of the immigration law of the United States.

**Requisites:** Completion of required 1st yr law crses

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAW 880 – CLIENT COUNSELLING**

1-3 credits.

Client interviewing, analysis of problems as presented by clients, techniques for client counseling and related law office practices. Students practice counseling of clients in hypothetical cases under the supervision of experienced practitioners. From the students taking the course, a team or teams may be selected for the national Client Counseling Competition.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2014

**LAW 895 – WISCONSIN INTERNATIONAL LAW JOURNAL**

1-3 credits.

WILJ is a student published law journal dealing with legal issues having significant international aspects. Each volume is comprised of student case notes and comments as well as articles by legal scholars and practitioners.

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**LAW 896 – WISCONSIN JOURNAL OF LAW, GENDER, AND SOCIETY**

1-3 credits.

A student-published journal devoted to the intersection of law and gender with issues of race, ethnicity, socioeconomic status, and sexual orientation. The journal, established in 1985, is one of the oldest journals in the country focusing exclusively on gender and the law. Student work on the journal may include writing a piece for publication, reviewing submissions from professional authors, or editing student and professional articles..

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**LAW 899 – LAW REVIEW**

1-3 credits.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**LAW 902 – JUVENILE JUSTICE ADMINISTRATION**

2-3 credits.

Formal structure and operational characteristics; objectives of the system, its problems with due process, and the roles of the police, lawyers and social workers.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**LAW 904 – SELECTED PROBLEMS IN CONSTITUTIONAL LAW SEMINAR**

2-4 credits.

Topics reflect interests of instructor and students.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**LAW 905 – BIOETHICS AND THE LAW**

2-4 credits.

Introduction to the legal, ethical and public policy dimensions of modern medicine and biomedical research. Informed consent, human experimentation, death and dying, organ transplantation, allocation of scarce resources. May cover reproductive and genetic issues in some years.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**LAW 906 – LAW, SCIENCE AND BIOTECHNOLOGY SEMINAR**

2-4 credits.

Legal, ethical, social and public policy questions raised by modern scientific and technological developments, with a particular focus on biotechnology.

**Requisites:** Cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**LAW 907 – SELECTED PROBLEMS IN PROFESSIONAL RESPONSIBILITY SEMINAR**

2-3 credits.

Perspectives on the ethics of professional life, beyond the requirements of professional codes and rules. Topics and approach reflect interests of instructor and students. May be open to non-law students with permission of instructor.

**Requisites:** Cons inst (may include prior work in some aspect of professional responsibility)**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012**LAW 911 – SEMINAR-PSYCHIATRY AND LAW**

2-3 credits.

Operational processes in the compulsory commitment and release of the mentally ill; interrelationships between the law and psychiatry in decision making.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2008**LAW 914 – SECURITIES REGULATION**

3 credits.

Problems under the Securities and Exchange Act and other federal and state regulatory measures; operation of the S.E.C.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**LAW 915 – SELECTED PROBLEMS IN CRIMINAL JUSTICE ADMINISTRATION SEMINAR**

2-3 credits.

Topics reflect interests of instructor and students.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LAW 918 – SELECTED PROBLEMS IN INTERNATIONAL LAW-SEMINAR**

2-3 credits.

Topics reflect interests of instructor and students.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LAW 919 – THE HOLOCAUST: FACTS, TRIALS, VERDICTS, POST-VERDICTS**

2 credits.

The background to the Holocaust, its implementation, the efforts to impose the criminal law on its perpetrators and the points of interaction between the Holocaust and U.S. policy.

**Requisites:** Law stdt or Jr st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2009**LAW 922 – SELECTED PROBLEMS IN JURISPRUDENCE-SEMINAR**

2-3 credits.

Topics reflect interests of instructor and students.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**LAW 926 – SELECTED PROBLEMS OF TORT LAW-SEMINAR**

2-3 credits.

Contents and format determined by instructor.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**LAW 928 – SELECTED PROBLEMS IN LAND LAW-SEMINAR**

2-3 credits.

Topics reflect interests of instructor and students.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LAW 932 – SELECTED PROBLEMS OF ADMINISTRATIVE LAW-SEMINAR**

2-3 credits.

Topics reflect interests of the instructor and students.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016

**LAW 935 – HEALTH LAW AND ADMINISTRATION SEMINAR**

2-3 credits.

The distribution of health services among income groups; financing of health care; standards of quality; and health policy planning.

**Requisites:** Adv st, cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LAW 936 – TORTS II**

2-3 credits.

Advanced torts, involving the interests in family, social, professional, trade and political relations, and individual dignity (defamation, disparagement, invasion of privacy by private persons and the state); protection of these interests by the law of torts and alternative means; constitutional dimensions of the problem.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**LAW 939 – SELECTED PROBLEMS IN FAMILY LAW-SEMINAR**

2-3 credits.

Topics reflect interests of instructor and students.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2014

**LAW 940 – LAW AND CONTEMPORARY PROBLEMS**

2-3 credits.

Relationship of law to current public issues. Topics reflect interests of instructor and students.

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**LAW 942 – EUROPEAN UNION LAW**

2-3 credits.

Introduction to European Union law, including the relationship between EU and Member State law, EU institutions, the law of the common market (i.e., free movement of goods, persons, services and capital) and environmental law and social policy.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAW 943 – SELECTED PROBLEMS IN LEGISLATION-SEMINAR**

2-3 credits.

Current issues in the drafting and enactment of legislation and in the use of legislation in litigation. Selection of issues reflects the interests of instructor and students.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2011

**LAW 944 – SELECTED PROBLEMS IN MODERN AMERICAN LEGAL HISTORY-SEMINAR**

2-3 credits.

Particular topics, with emphasis on the relation of law to main currents of political, social, and economic thought in the United States.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

**LAW 945 – LAW AND CORRECTIONAL INSTITUTIONS-SEMINAR**

2-3 credits.

Practice of criminal corrections and the law governing it; probation, parole, rehabilitative efforts, prison administration, and legal and administrative procedures for testing the propriety of restrictions.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LAW 949 – SELECTED PROBLEMS IN CIVIL PROCEDURE-SEMINAR**

2-3 credits.

Topics reflect interests of instructor and students.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

**LAW 950 – LAWYERING SKILLS COURSE**

10 credits.

Training in skills used when applying the law in general practice. Taught by teaching teams of practicing lawyers, under the supervision of a faculty member, with at least one lawyer for each 20 students. Offered 3 1/2 hours a day during 10 weeks of the semester, with no classes in this course during the balance of the semester. Focuses on the skills of interviewing, drafting, negotiations, and using time efficiently; in the context of criminal defense, probate, debtor-creditor, corporations, preparation for civil trial, divorce, real estate, administrative proceedings, and law office operation. Each student handles approximately 35 hypothetical legal matters that are likely to be the work of a new lawyer in general practice.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017



**LAW 953 – SELECTED PROBLEMS IN BUSINESS ORGANIZATION-SEMINAR**

1-3 credits.

In business planning and business organizations including proprietorships, partnerships, corporations and trusts.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**LAW 954 – CORPORATE FINANCE LAW**

3 credits.

This course presents the basics of finance for business lawyers, and the law and legal strategy surrounding the creation of debt instruments.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAW 955 – PUBLIC SECTOR LABOR RELATIONS LAW SEMINAR**

2-3 credits.

Legal and public policy issues relating to public sector unionism in a multiplicity of jurisdictions, including representation questions, scope of bargaining, limitations on the right to strike, impasse procedures, and grievance arbitration.

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LAW 957 – INTRODUCTION TO ESTATE PLANNING**

2-3 credits.

Issues related to estate planning; including function of the lawyer, ethical issues, estates not subject to tax, basic elements of tax-oriented planning, living trusts, health care issues, gift strategies.

**Requisites:** LAW 733, 742, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LAW/ECON 961 – SELECTED PROBLEMS IN TRADE REGULATION-SEMINAR**

2-3 credits.

Topics reflect interests of instructor and students.

**Requisites:** ECON 761

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**LAW 977 – SELECTED PROBLEMS IN POLICING SEMINAR**

2-3 credits.

Topics reflect interests of instructor and students.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

**LAW 980 – AFRICAN LAW**

2-3 credits.

Development of the legal systems of English speaking Africa, under the colonial regimes and since independence. Offered as part of the African Studies Program.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**LAW 981 – LAW AND MODERNIZATION IN THE DEVELOPING WORLD SEMINAR**

2-3 credits.

Law as a system of social engineering in the economic and social modernization of developing countries. Problems of developing rules with a high probability of inducing behavior likely to lead to modernization.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**LAW 982 – LATIN AMERICAN LEGAL INSTITUTIONS**

2-3 credits.

Development and function of legal institutions in Latin America, particularly in their relationship to social and economic conditions. Historical and institutional antecedents of the legal systems in Latin America; the manner in which legal institutions have responded to various economic and social problems.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**LAW 988 – SELECTED PROBLEMS IN ENVIRONMENTAL LAW-SEMINAR**

2-3 credits.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**LAW 989 – ENVIRONMENTAL LAW AND PRACTICE**

3 credits.

Presents environmental statutes, cases, and regulations, and discusses their implementation. The focus of the course will be both law and practice. It will provide a survey of substantive environmental law and their application in permitting, commercial transactions and enforcement. LAW 848 recommended

**Requisites:** Completion of required 1st-yr law crses.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**LAW 990 – DIRECTED RESEARCH**

1-12 credits.

With consent of faculty supervising the research; scope and subject arranged between student and faculty.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LAW 991 – DIRECTED READING**

1-3 credits.

Independent readings from a list prepared by instructor. Subject matter determined by agreement between instructor and student. No student may count more than 8 credits of Directed Reading towards satisfaction of the requirements of the J.D. degree.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LEGAL STUDIES (LEGAL ST)****LEGAL ST/SOC 131 – CRIMINAL JUSTICE IN AMERICA**

3-4 credits.

Day-to-day functioning of the elements of the criminal justice system in the U.S. Nature of crime in the U.S., ideas about causes and solutions. Emphasis on the sociology of the components of criminal justice system—organization and roles of police, lawyers, court and correctional personnel. Stdts may receive cr for only one of the following: SOC/LEGAL ST 131 or 431

**Requisites:** Open to Fr So only, until end of Fr reg period.**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LEGAL ST/POLI SCI 217 – LAW, POLITICS AND SOCIETY**

3-4 credits.

Introduction to the legal process. Examination of the various concepts of law, the perennial problems of the law, legal reasoning, and the nature and function of law and the courts.

**Requisites:** Freshmen or sophomore standing only**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LEGAL ST/HISTORY 261 – AMERICAN LEGAL HISTORY TO 1860**

3-4 credits.

This course surveys the development of American law down to the U.S. Civil War. After a review of the English historical background, it examines how law changed in colonial America, culminating in the framing of the U.S. Constitution. It then explores how territorial expansion, democracy, and slavery shaped nineteenth-century American law. Emphasis is on how law interacts with political, social, and cultural change, with a focus on the origins of modern civil and constitutional rights.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LEGAL ST/HISTORY 262 – AMERICAN LEGAL HISTORY, 1860 TO THE PRESENT**

3-4 credits.

This course surveys the development of American law from the Civil War to the early Twenty-First Century. After a review of the U.S. Constitution and its modification by the Civil War amendments, it examines the legal dimensions of such topics as race relations and the Civil Rights movement, the growth of modern business, the New Deal, labor rights, the women's movement, the individual rights revolution of the postwar period, and the contemporary conservative reaction. Emphasis is on how law interacts with political, social, and cultural change.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LEGAL ST 400 – TOPICS IN LEGAL STUDIES AND THE SOCIAL SCIENCES**

3-4 credits.

This course can be repeated by students, but not with the same content.

**Requisites:** Jr st; prerequisite may vary with topic**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**LEGAL ST 405 – FOUNDATIONS OF FIELD EDUCATION**

2 credits.

This course is designed as a preparatory course for an advanced learning opportunity via an extensive, hands-on internship at a community criminal or juvenile justice agency.

**Requisites:** Students must be declared in the Criminal Justice Certificate and have completed or be currently enrolled in a course from groups 1-3 of the certificate curriculum

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LEGAL ST 409 – HUMAN RIGHTS IN LAW AND SOCIETY**

3 credits.

Introduction to the theory, the politics and the sociology of human rights. Main themes: international human rights legal regime, questions of why human rights have become "legalized," and what the consequences of this legalization are on the ground. , Jr st or inst cons

**Requisites:** Legal St/SOC/LEGAL ST 131 or Legal St/Pol Sci 217.

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LEGAL ST/SOC 415 – THE LEGAL PROFESSION**

3-4 credits.

History, structure, and functioning of legal professions in the United States and in other countries around the world.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**LEGAL ST/GEN&WS 422 – WOMEN AND THE LAW**

3 credits.

Legal system, laws, and proposed legislation that have specific impact on the lives of women. Topics investigated in both the social and legal contexts.

**Requisites:** A woman-related course and a soc sci course; or cons inst

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**LEGAL ST/HISTORY 426 – THE HISTORY OF PUNISHMENT**

3-4 credits.

This course examines punishment across a vast range of historical traditions, examining how wrongdoing and punishment have been figured in law, literature, art and philosophy. Through the semester we will examine ancient, medieval and modern traditions.

**Requisites:** Junior or Senior standing or consent of instructor

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

**LEGAL ST/ENVIR ST/HISTORY 430 – LAW AND ENVIRONMENT: HISTORICAL AND CONTEMPORARY PERSPECTIVES**

3 credits.

Explores environmental studies through a focus on law and legal history. Although its main concentration is on U.S. environmental law, the course will begin and end with broader historical and global perspectives.

Topics include a survey the English, European, and early American legal approaches to land use, natural resources, and pollution through World War II as well as an examination of the development and practice of contemporary U.S. environmental law and consideration of the recent emergence of international environmental law.

**Requisites:** Sophomore standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LEGAL ST 444 – LAW IN ACTION**

3 credits.

A review of the interaction of law (judicial decisions, legislation, administrative actions) with public policy by studying the approaches used to resolve a number of significant issues by use of law and examining the actual impact of such efforts.

**Requisites:** So st

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LEGAL ST 450 – TOPICS IN LEGAL STUDIES AND THE HUMANITIES**

3-4 credits.

Topics courses will address a variety of issues linking various humanities perspectives to the central themes of law and legal institutions. This course may be repeated by students, but not with the same content.

**Requisites:** Jr st; prerequisite may vary with topic

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**LEGAL ST/HISTORY 459 – RULE OF LAW: PHILOSOPHICAL AND HISTORICAL MODELS**

3-4 credits.

From the perspectives of history and political theory, this course examines the multiple meanings of the idea of the rule of law, and its uses in American history. We then explore prominent critiques of the rule of law ideal.

**Requisites:** A prev law-related crse**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**LEGAL ST/L I S 460 – SURVEILLANCE, PRIVACY, AND POLICE POWERS**

3 credits.

Examines individual privacy and government information collection in law enforcement, security, public health, administrative law, and other contexts from a variety of disciplinary perspectives.

**Requisites:** Junior standing or permission of instructor**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**LEGAL ST/HISTORY 476 – MEDIEVAL LAW AND SOCIETY**

3 credits.

The course is intended to introduce students to the central historical developments of law and legal institutions in the European middle ages (400-1500).

**Requisites:** None**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**LEGAL ST/HISTORY 502 – LAW AND COLONIALISM**

3 credits.

Historical introduction to the role of law in the context of empire, with special emphasis on 19th-20th C British imperialism; explores themes of class, race and gender through fields of law including criminal, property, family, contract and labor law.

**Requisites:** Previous law-related course**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**LEGAL ST/HISTORY 510 – LEGAL PLURALISM**

3 credits.

Historical and anthropological perspectives on non-state "law," or systems of rules generated by normative orders that lay beyond the state; case studies include the mafia, Tokyo tuna traders' court, orthodox Jewish diamond merchants, California gold miners' courts, Inuit song dueling.

**Requisites:** Previous law-related course**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**LEGAL ST 600 – SPECIAL TOPICS IN LEGAL STUDIES**

1-3 credits.

Special seminars are designed for opportunities such as short international seminar courses, the summer forum, and other social opportunities.

**Requisites:** Prereq varies by topic**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**LEGAL ST/LCA/RELIG ST 628 – HINDU LAW**

3 credits.

An examination of the nature, history, institutions, and thought of the Hindu legal tradition from its origins ca. 200BCE to the present.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2012**LEGAL ST/LAW/SOC 641 – SOCIOLOGY OF LAW**

3-4 credits.

Theory and research on the social origins, processes and effects of law; examination of law-related behavior, legal institutions, law and social structure, and law and social change; linkage to contemporary theoretical and political debates.

**Requisites:** Junior standing and either SOC 441 or SOC/C&E SOC 475, or Law student**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2017

**LEGAL ST/L I S 645 – INTELLECTUAL FREEDOM**

3 credits.

An examination of intellectual freedom in the United States including censorship, minors' rights, the Internet, privacy, and copyright with focus on theoretical questions related to the First Amendment to the U.S. Constitution, and historical developments.

**Requisites:** Junior Standing; or Graduate Standig in SLIS**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LEGAL ST 650 – ADVANCED SEMINAR IN LEGAL STUDIES**

2-3 credits.

A topics seminar typically taught by a member of the Law School faculty. The course may be taught on a "meets with" basis with a Law School topics course or seminar.

**Requisites:** Legal studies major; Sr st; cons inst may be required**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2009**LEGAL ST/L I S 663 – INTRODUCTION TO CYBERLAW**

3 credits.

This is an introductory course in the law of cyberspace. The emphasis is on critical thinking about a broad variety of legal and policy problems that arise because of ever-changing information and communication technologies.

**Requisites:** Jr st cons inst, or Grad st in SLIS**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**LEGAL ST 681 – SENIOR HONORS THESIS**

3-4 credits.

Individual study for majors writing theses for honors degree.

**Requisites:** Sr st, legal studies major, admission to Honors Prog, cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LEGAL ST 682 – SENIOR HONORS THESIS**

3-4 credits.

Individual study for majors writing theses for honors degree.

**Requisites:** Sr st, legal studies major, admission to Honors Prog, cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LEGAL ST 691 – SENIOR THESIS**

3 credits.

Individual study for majors writing senior thesis (nonhonors).

**Requisites:** Legal studies major, Sr st, cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**LEGAL ST 692 – SENIOR THESIS**

3 credits.

Individual study for majors writing senior thesis (nonhonors).

**Requisites:** Legal studies major, Sr st, cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LEGAL ST/SOC 694 – CRIMINAL JUSTICE FIELD OBSERVATION**

2-3 credits.

Field placements and seminar sessions to develop sociological understanding of criminal justice processes. Placement in criminal justice agencies and lectures and discussions applying concepts and theories to field experience.

**Requisites:** SOC/LEGAL ST 131 and Criminal Justice Certificate declaration**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Workplace - Workplace Experience Course

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LEGAL ST 699 – DIRECTED STUDY**

1-4 credits.

Directed study in legal studies.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## LIBRARY AND INFORMATION STUDIES (L I S)

### L I S 201 – THE INFORMATION SOCIETY

4 credits.

Examines important social, legal, and historical contexts of information and information technologies, and explores significant social, legal, and moral questions that surround those technologies.

**Requisites:** Satisfied Communications A requirement

**Course Designation:** Gen Ed - Communication Part B

Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### L I S 202 – INFORMATIONAL DIVIDES AND DIFFERENCES IN A MULTICULTURAL SOCIETY

3 credits.

Explores the impact of and barriers to access to information on the lives of low-income ethnic/racial minority communities in the United States. Provides introduction to contemporary information society from a sociological perspective.

**Requisites:** Open to Fr

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### L I S 301 – INFORMATION LITERACIES IN ONLINE SPACES

3 credits.

Explores information and digital literacies needed by today's online consumers and producers. Covers skills and topics related to access (digital divides, power relations in online communities, regulation), analysis (assessing credibility, evaluating risks, analyzing representation) and production (blogging, videosharing, gaming).

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

### L I S/LITTRANS 319 – SCANDINAVIAN CHILDREN'S LITERATURE

3-4 credits.

Forms and themes of Scandinavian children's literature from the nineteenth century to the present. Exploration of the dominant concerns of authors, adult and non-adult audiences. Film adaptations and Scandinavian-American materials included.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

### L I S 340 – TOPICS IN INFORMATION STUDIES - SOCIAL ASPECTS

3 credits.

Exploration of contemporary issues related to information in society. Subject will vary. Examples include, but not restricted to: Information Ethics, Digital and Print Culture, Global Information Flows.

**Requisites:** None

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

### L I S 341 – TOPICS IN INFORMATION STUDIES - TECHNOLOGICAL ASPECTS

1-3 credits.

Exploration of information technology and information management subjects. Subjects will vary. Examples include, but not restricted to: A Social History of Information Infrastructure, Digital Productivity Tools and Debates, Digital Publishing Standards and Tools, Digital Preservation.

**Requisites:** Sophomore standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017



**L I S 350 – HISTORY AND FUTURE OF BOOKS**

3 credits.

This course is framed by a question about what books are, what books have been, and what books might be: past, present, and future. The course also assumes that "book" is a capacious term, or a placeholding one, for an object that becomes the site of questions and debates about a variety of media, expressions, and recording practices. We live in a moment of rapid media evolution, and yet we have seen the book endure and change as a form. Academic fields including book history, digital humanities, media studies, and human computer interaction (to name only a few) all have something at stake in the form of the book - not to mention industry-oriented interests in e-readers, book retail, publishing - and likewise this course will approach the book from a number of perspectives. Our primary goal is to understand the book (and, in a wider sense, information) as an active technology that shapes peoples, perceptions, and cultures rather than serving as a passive receptacle of them. This course also meets the requirements for Comm B, which means we will be thinking about our own written and spoken productions by way of this material. Includes hands on research exercises in UW special collections library and Wisconsin Historical Society archive collections.

**Requisites:** Satisfied Communications A requirement**Course Designation:** Gen Ed - Communication Part B

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**L I S 351 – INTRODUCTION TO DIGITAL INFORMATION**

3 credits.

This entry level course prepares students to use information technologies to solve problems and help people through implementing information infrastructures such as websites, databases and metadata. Students will explore information access, information representation, usability and information policy issues, and increase their understanding of the social impacts and social shaping of information infrastructures.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**L I S 399 – INDEPENDENT READING AND RESEARCH**

1-4 credits.

Concentrated work on a subject or problem of the student's need or interest; students must submit a written report, paper, or other product covering the work accomplished.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**L I S/LEGAL ST 460 – SURVEILLANCE, PRIVACY, AND POLICE POWERS**

3 credits.

Examines individual privacy and government information collection in law enforcement, security, public health, administrative law, and other contexts from a variety of disciplinary perspectives.

**Requisites:** Junior standing or permission of instructor**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**L I S/FOLKLORE 490 – FIELD METHODS AND THE PUBLIC PRESENTATION OF FOLKLORE**

3 credits.

The course combines a fieldwork practicum with scrutiny of the cultural, political, and ethical dimensions underlying the documentation and public presentation of folklore through festivals, exhibitions, publications, and audio-visual productions.

**Requisites:** Sr st, two crses in folklore or cultural anthro or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2010**L I S 500 – CODE AND POWER**

3 credits.

Prepares students to analyze and critique the portrayal of race, gender and computing in various media outlets and to consider their own potential as contributors to the computing industries in light of media portrayals and their own self-perceptions. As students confront assumptions about gender race and computing, this course will also equip them with the skills necessary to confidently design, develop, and discuss web scripting aspects related to HTML/CSS/PHP website development.

**Requisites:** Junior standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**L I S/NURSING/OCC THER 517 – DIGITAL HEALTH: INFORMATION AND TECHNOLOGIES SUPPORTING CONSUMERS AND PATIENTS**  
3 credits.

This course is appropriate for undergraduate or graduate students considering careers in the health or allied health professions, service professions, and the social services, particularly those concerned with the medically under served and members of racial/ethnic/socioeconomic minority groups. This course covers topics within the US context including: the identification of appropriate and accurate materials for consumer health and family education; the ethical and organizational policy issues that arise when providing consumer and family health information in different settings; the role of the public media in disseminating health information; the health-related information needs and preferences of racial/ethnic minority populations; and health information technologies, from search engines to websites to apps, that put people in charge of managing their own health information.

**Requisites:** Junior standing**Course Designation:** Breadth - Social Science  
Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**L I S/HISTORY 569 – HISTORY OF AMERICAN LIBRARIANSHIP**  
3 credits.

Development of American librarianship from Colonial times to the present, with special reference to the relationship of library institutions to their contemporary social, economic, cultural and political environments.

**Requisites:** Enrollment limited to graduate students in the L I S program or Juniors or Seniors**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**L I S 601 – INFORMATION: PERSPECTIVES AND CONTEXTS**  
3 credits.

Provides an introduction to major themes and topics in information studies as well as the language and literature of the field and related disciplines. This course is about information, information agencies, and being an information professional. We look at social, historical, ethical, legal and political issues surrounding information dissemination, use, control, and management.

**Requisites:** Graduate or professional standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**L I S 602 – INFORMATION: ORGANIZATION AND SEARCH**  
3 credits.

This course introduces basic concepts and principles of information organization and online searching. Students gain knowledge of information organization and retrieval theories and methods and knowledge of large database structures and database searching techniques. Students critically examine the impact of information organization practices on organizations and culture. Through readings, lectures, discussions, and exercises, students will learn how to develop information organizing systems and to evaluate and improve search systems.

**Requisites:** Declared in Library and Information Studies graduate program**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**L I S 603 – RESEARCH AND ASSESSMENT FOR INFORMATION PROFESSIONALS**  
3 credits.

Introduces students to research, evaluation and assessment practices. Prepares students to design and implement a research or assessment project. Provides an overview of commonly employed data collection methodologies and introduces students to both qualitative and quantitative analysis approaches that may be employed in evaluation, assessment and research.

**Requisites:** Must be iSchool graduate student**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**L I S/COMP SCI 611 – USER EXPERIENCE DESIGN 1**  
3 credits.

Introduces students to the user experience design process, key stages involved in designing for user experience, and tasks, methods, and tools involved at each stage at an introductory level, including understanding and modeling users, needs, and context and performing basic design, prototyping, and formative evaluation.

**Requisites:** Declared in the Capstone Certificate in User Experience Design**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**L I S/COMP SCI 612 – USER EXPERIENCE DESIGN 2**

3 credits.

Students advance their understanding of the UX design process by learning and applying tools and techniques at an intermediate level, including conceptual and interaction design, more advanced methods for prototyping of design solutions, and iterative design based on user models and evaluation. Students apply skills learned in the course to develop and iteratively improve prototypes for a project.

**Requisites:** L I S/COMP SCI/L I S 611 and declared in the Capstone Certificate in User Experience Design

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**L I S/COMP SCI 613 – USER EXPERIENCE DESIGN 3**

3 credits.

Hone skills in assessment of digital user experience design including assessment of accessibility, information architecture, interactions, contribution to organizational goals, content workflows, trace data and advanced usability assessment. Students learn and apply core concepts of information architecture to improve digital design. Students gain understanding of how to find, analyze and interpret trace data to assess design. Students apply understanding of social aspects of digital media through exploration and application of participatory and value sensitive design approaches and analysis methods, broader stakeholder analysis and analysis that examine the fit between culture and task.

**Requisites:** L I S/COMP SCI/L I S 612 and declared in the Capstone Certificate in User Experience Design

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**L I S/COMP SCI 614 – USER EXPERIENCE DESIGN CAPSTONE**

1 credit.

Applies a design studio critique approach to produce a learning environment of collaborative and interdisciplinary peer critique and learning, in addition to provide expert feedback and suggestions. Students will present and defend the latest iteration of the user experience design project they developed in earlier courses while learning about the professions associated with digital user experience design.

**Requisites:** L I S/COMP SCI/L I S 613 and declared in the Capstone Certificate in User Experience Design

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**L I S 616 – RECORDS MANAGEMENT**

1-3 credits.

An introduction to the role of records in society and to the principles and practices involved in managing records (both paper and electronic) in private and public sector organizations. Grad st in SLIS or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**L I S/B M /I SY E 617 – HEALTH INFORMATION SYSTEMS**

3 credits.

Provides grounding in core concepts of health information systems. Major applications include clinical information systems, language and standards, decision support, image technology and digital libraries. Evaluation of IE tools and perspectives designed to improve the quality, efficiency and effectiveness of health information.

**Requisites:** I SY E 417

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**L I S/MUSIC 619 – MUSIC RESEARCH METHODS AND MATERIALS**

3 credits.

Historical and contemporary bibliography resources for musical scholarship; general reference tools of scholarly work and specific musicological works.

**Requisites:** Graduate standing

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**L I S/CURRIC 620 – FIELD PROJECT IN LIBRARY AND INFORMATION AGENCIES**

3 credits.

Analysis of field experience through seminars, individual conferences, required reading and consultations with cooperating librarians and information specialists. Enrollment limited.

**Requisites:** LIS 450, 451 551; electives appropriate to the proposed project; cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**L I S 622 – CHILDRENS LITERATURE**

3 credits.

Traditional sources to the present; criticism and evaluation; contemporary trends and issues. Techniques of reading guidance in school or public library in relationship to developmental interests, needs and skills of children.

**Requisites:** Jr st cons inst; or Grad st in SLIS

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**L I S 624 – STORY TELLING AND ORAL LITERATURE**

3 credits.

The oral tradition in world literature for children. Techniques of interpretation through story telling; development of story telling programs in library, school and community.

**Requisites:** Jr st cons inst; or Grad st in SLIS

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2011

**L I S 629 – MULTICULTURAL LITERATURE FOR CHILDREN AND YOUNG ADULTS**

3 credits.

Focus on literature written or illustrated by U.S. citizens or residents which depicts people of color both within and outside the U.S. Emphasis on literature of past fifteen years with comparison to earlier literature. Publishing trends.

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**L I S 631 – YOUNG ADULT LITERATURE**

3 credits.

Survey of background and current media interests and needs of young adults, with emphasis on reading interests. Critical examination of media trends, materials, selection criteria, guiding the individual user, censorship problems, as they relate to the young adult.

**Requisites:** Jr st cons inst; or Grad st in SLIS

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**L I S 632 – METADATA STANDARDS AND XML**

3 credits.

This course provides an overview of the design and use of metadata for resource description and retrieval in digital environments. Students learn to implement and evaluate standard schemes used in cultural heritage, commercial and other contexts including Dublin Core, MODS, VRA and others. Issues of information behavior, interoperability, quality control, vocabulary control and project management are covered.

**Requisites:** L I S 602

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**L I S 635 – REFERENCE AND INFORMATION SERVICE**

3 credits.

Theories, principles and practices in selected aspects of reference and information services.

**Requisites:** LIS 450 451 or con reg or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**L I S 639 – PEDAGOGICAL THEORY AND PRACTICE FOR INFORMATION PROFESSIONALS**

3 credits.

Introduction to pedagogical theory, training tools, and teaching skills needed in a variety of informational instructional settings such as academic and public libraries, archival institutions, museums, and software training facilities. Applicable for students interested in information literacy instruction, online teaching, technology training, and group instruction..

**Requisites:** Graduate student in iSchool Masters program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**L I S 640 – TOPICS IN LIBRARY AND INFORMATION STUDIES**

1-3 credits.

Current issues in library and information studies that are not addressed in sufficient depth in existing courses or that combine facets of several existing courses.

**Requisites:** Jr st cons inst; or Grad st in SLIS

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**L I S 641 – THE SCHOOL LIBRARY/MEDIA CENTER**

3 credits.

Its function in the educational program; the management, organization, and development of its media resources and services.

**Requisites:** LIS 450 451 or con reg or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**L I S 642 – READING INTERESTS OF ADULTS**

3 credits.

An examination of the nature and societal functions of a variety of mass media-generated adult reading materials, the standards by which they are judged, and their relationship to contemporary library and information science fields.

**Requisites:** Junior Standing; or Graduate Standing in SLIS**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**L I S 644 – DIGITAL TOOLS, TRENDS AND DEBATES**

3 credits.

Overview of information and communications technologies, digital media, and standards in relationship to information agencies, within the context of current societal controversies. Promotes technical knowledge of ICT and critical analysis of controversies surrounding ICT development, use and modification.

**Requisites:** Jr st cons inst or Grad st in SLIS**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**L I S/LEGAL ST 645 – INTELLECTUAL FREEDOM**

3 credits.

An examination of intellectual freedom in the United States including censorship, minors' rights, the Internet, privacy, and copyright with focus on theoretical questions related to the First Amendment to the U.S. Constitution, and historical developments.

**Requisites:** Junior Standing; or Graduate Standig in SLIS**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**L I S 646 – INTRODUCTION TO INFO ARCHITECTURE AND INTERACTION DESIGN FOR THE WEB**

3 credits.

Introduces students to basic concepts in information architecture, digital interaction design, usability testing, navigation, evaluation, and accessibility through planning, design and development of a web based information product or service. Students will also learn introductory web development technologies.

**Requisites:** Declared in Library and Information Studies graduate program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**L I S/ART HIST/HISTORY/JOURN 650 – HISTORY OF BOOKS AND PRINT CULTURE IN EUROPE AND NORTH AMERICA**

3 credits.

History of books and print culture in the West from ancient times to the present. Focus on the influence of reading and writing on social, cultural, and intellectual life. Methodologies, theories, and sources for study of book and print culture history.

**Requisites:** Enrollment limited to graduate students in the L I S program or Juniors or Seniors**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**L I S 651 – CATALOGING AND CLASSIFICATION**

3 credits.

Basic cataloging and classification principles and suitable techniques. Includes descriptive cataloging, selected entry headings, Sears subject headings, Dewey Decimal Classification, book numbers, and cataloging with supplied copy including OCLC editing.

**Requisites:** LIS 450, 451, 551 or con reg or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**L I S 652 – XML AND LINKED DATA**

3 credits.

This course introduces the technical underpinnings of XML and linked data (RDF) as used in information agencies, sufficient for students to learn, use, and leverage newly-encountered markup and metadata languages.

**Requisites:** Junior standing consent of instructor; or Graduate student in SLIS**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**L I S 653 – GOVERNMENT INFORMATION SOURCES**

3 credits.

Issues of United States government information policy. Structure, policies, and procedures of the Depository Library System. Selection, acquisition, and problems of access to government information sources, including electronic formats.

**Requisites:** Junior standing consent of instructor; or Grad standing in SLIS**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2012



**L I S 654 – INFORMATION SERVICES MANAGEMENT**

3 credits.

Survey of concepts and skills necessary to perform in an information services organization. Service needs assessment, goal and objective setting, staffing, budgeting and evaluation.

**Requisites:** LIS 450 451 or con reg or cons inst

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**L I S 655 – COLLECTION MANAGEMENT**

3 credits.

A course in collection development designed to teach professional skills in selection and control of collections. The course examines large societal forces affecting the ways librarians have traditionally built collections and contemporary changes in access and ownership.

**Requisites:** Graduate student in iSchool Masters program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**L I S 658 – PUBLISHING, KNOWLEDGE INSTITUTIONS AND SOCIETY: E-REVOLUTIONS?**

3 credits.

Examines change in the publishing industries in the U.S. and globally. Students gain knowledge of current trends, processes, and standards in trade and scholarly publishing. Students critically examine changes in stakeholders, workflows and financial arrangements in the publishing industries. Includes an examination of copyright law, licensing practices, and open knowledge practices.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**L I S 661 – INFORMATION ETHICS AND POLICY**

3 credits.

Overview of modern ethical theories and how they inform information agency policies and practices; examines selected policy issues relating to information and communications; includes topics such as intellectual property, privacy, censorship, equity of access.

**Requisites:** Jr st cons inst, or Grad st in SLIS

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**L I S/LEGAL ST 663 – INTRODUCTION TO CYBERLAW**

3 credits.

This is an introductory course in the law of cyberspace. The emphasis is on critical thinking about a broad variety of legal and policy problems that arise because of ever-changing information and communication technologies.

**Requisites:** Jr st cons inst, or Grad st in SLIS

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**L I S 665 – TOPICS IN RACE AND ETHNICITY IN THE INFORMATION SOCIETY**

3 credits.

This course discusses issues in the provision of information services in a multiethnic and multilingual society. It also discusses the role of information institutions in promoting and preserving ethnic heritage.

**Requisites:** Junior standing and consent of instructor; or Grad standing in SLIS

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**L I S 668 – DIGITAL CURATION AND COLLECTIONS**

3 credits.

Introduces students to core concepts and new developments in digital curation, preservation and digital collections. Topics include: digitization of various media; digital preservation; media archeology; basics of research data management; digital collection technologies and workflows; intellectual-property issues; metadata as applied in digital collections; digital collections planning and evaluation; trusted digital repositories; funding of digital collection projects and sustainability.

**Requisites:** Graduate or professional standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**L I S/JOURN 677 – CONCEPTS AND TOOLS FOR DATA ANALYSIS AND VISUALIZATION**

3 credits.

Ours has become a data society. Like at no other time, our world—the natural world, from storm systems to diseases; governments and companies; and our conversations with friends and relatives, even our movements—is recorded in digital format. A few years ago, Google CEO Eric Schmidt famously stated that "There was 5 exabytes of information created between the dawn of civilization through 2003, but that much information is now created every 2 days, and the pace is increasing." (An exabyte is 1 trillion megabytes.) The result is that professional communicators in journalism and mass communication, as well as researchers and private firms, now literally have more data than they know what to do with. There is tremendous need across our society for people who are able to use data to investigate important questions, draw useful insights from those data, and communicate those insights to others—and also to be realistic and honest about what data can and cannot do. That is what this class is for: it is an introduction to the world of data, how data can be used to answer questions and those answers can be effectively and ethically communicated. More specifically, we will offer a combination of conceptual training, instruction in specific tools for data analysis and visualization, and the opportunity to put new skills to use in a final project. This course is intended for Juniors, Seniors and Graduate students and by instructor permission. Research methods experience preferred.

**Requisites:** Junior standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**L I S 678 – PRESERVATION AND CONSERVATION OF LIBRARY AND ARCHIVES MATERIALS**

3 credits.

Basic concepts, principles, and approaches to protection and care of library and archives material, including nature and structure of paper- and plastic-based materials, deterioration, preservation management, disaster prevention, reformatting, and repair. Laboratory experience offered.

**Requisites:** Graduate standing in SLIS**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**L I S/E P D 703 – MANAGING DIGITAL INFORMATION**

1 credit.

This course helps professionals to effectively and ethically protect and organize the information that they collect, create, and manage. It also presents collaboration tools and techniques for information creation and management.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**L I S 707 – DATA VISUALIZATION AND COMMUNICATION FOR DECISION MAKING**

3 credits.

Introduces key concepts in data visualization and communication including how and why visualization can be an effective tool for summarizing, analyzing and communicating about data, and limitations and challenges of using visualization techniques. Students will use contemporary software to develop visualization dashboards and presentations as well as plan appropriate types of visualization(s) based on source data, audience, and goals, evaluate visualizations for effectiveness and bias.

**Requisites:** Declared in Analytics for Decision Making capstone certificate**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**L I S 712 – THE PUBLIC LIBRARY**

3 credits.

Library service based on knowledge of structure and government, personnel, resources, legislation, building, management and planning, public relations and marketing.

**Requisites:** None**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**L I S 722 – COLLEGE AND UNIVERSITY LIBRARIES**

3 credits.

Place of the library and librarian in the instructional program; special units of study devoted to administration of the library, budgets, buildings, departmental libraries and cooperative ventures.

**Requisites:** None**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**L I S 732 – STRATEGIC INFORMATION SERVICES**

3 credits.

Developing, managing and evaluating information services to corporate, government, research, small business, and community organizations. Overviews of knowledge management, business intelligence, industry analysis, information brokering. Gain skills in information service entrepreneurship and marketing information services. Overview of changes within the profession and networking within the professional community.

**Requisites:** None**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**L I S/HISTORY 734 – INTRODUCTION TO ARCHIVES AND RECORDS MANAGEMENT**

3 credits.

An introduction to the archives profession and basic theory and practice of archives and records administration, including the uses of primary sources in research, appraisal, access, and preservation.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**L I S 751 – DATABASE DESIGN FOR LIBRARIES AND INFORMATION AGENCIES**

3 credits.

Introduction to database management systems, the database design process and database management issues, current trends and developments in the database field with a focus on library database systems.

**Requisites:** Graduate student in iSchool Masters program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**L I S 755 – ELECTRONIC RESOURCE MANAGEMENT & LICENSING**

3 credits.

Management, policy and technology issues associated with licensed digital library resources such as e-journals, e-books, full text and citation databases, digital audio and video collections, and e-references resources. Includes a significant copyright and licensing component.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**L I S 765 – ARCHIVES USER SERVICES AND OUTREACH**

3 credits.

This course looks at the theories, principles, and practices involved in making archival material accessible to the public. Particular emphasis is placed on (1) the role that archival description plays in mediating access to archival materials, (2) on the public service and public programming components of archival work.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**L I S 768 – DIGITAL HUMANITIES ANALYTICS**

3 credits.

Learn and apply introductory technology-related concepts and skills to plan, implement and assess data-driven projects in the humanities, social sciences and other fields. Topics include identifying relevant existing digitized materials, web scraping, text encoding, topic modeling, mapping, social network analysis and other approaches for collecting, analyzing and visualizing data.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**L I S 772 – LIBRARY SERVICES TO CHILDREN AND YOUNG ADULTS**

3 credits.

The theory and structure of public library service to children and young people, its function in the community, and techniques of administration. Seminar and field work.

**Requisites:** Graduate student in iSchool Masters program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**L I S/CURRIC/ED PSYCH 803 – COMPUTATIONAL RESEARCH METHODS**

3 credits.

Provides a broad overview of ways of formulating and investigating novel questions with tools from educational data mining and learning analytics including social network analysis, natural language processing, Markov modeling, Bayesian inference, and agent-based modeling.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**L I S 810 – TOPICS IN RESEARCH METHODS FOR LIBRARY AND INFORMATION STUDIES**

1-3 credits.

Critical examination of selected methods of research methods and design; for example, bibliometric techniques, scale design.

**Requisites:** None**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**L I S 818 – ARCHIVES ACCESSIONING AND APPRAISAL**

3 credits.

Theories and principles behind archival decisions to acquire records and designate them as worthy of long-term retention in an archive. Emphasis on understanding archival views about society, the role of the archivist, and the attribution of value to archival material.

**Requisites:** LIS 734, concurrent registration or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017

**L I S 820 – TOPICS IN COMMUNITY ENGAGEMENT**

1-3 credits.

Provides a practical experience for students to work in communities with literacy and other information needs. Examples of community work include designing and implementing literacy programs for school-aged children and organizing book and magazine collections in after-school facilities.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**L I S 822 – INFORMATION USE AND USERS**

3 credits.

Survey of information needs, information seeking behavior, and information use by people in their various roles, situations, and contexts. Methods that are used to study information needs, uses, and information seeking behavior, including community analysis.

**Requisites:** LIS 450 LIS 451; or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**L I S 826 – FIELD PROJECT IN LIBRARY AND INFORMATION LITERACY INSTRUCTION**

3 credits.

Guided practice in the development and implementation of information literacy curriculum at the university level. Participants will assist campus teaching librarians with the Communication Requirement A courses and perform other teaching related tasks at assigned site.

**Requisites:** LIS 450, LIS 451 LIS 551 or concurrent registration; and consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**L I S 839 – SPECIAL COLLECTIONS**

1-3 credits.

A topical course focusing on a special subject (art, law, music, health sciences) or format (maps, microforms, rare books, iconographic materials). Issues related to collection development, acquisitions, reference, indexing and management. May be repeated for cr. a max of 6 cr applic to the Master degree

**Requisites:** Cons inst.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**L I S 847 – TOPICS IN USER SERVICES**

1-3 credits.

Special aspects of user services, publics served, skills in service and service models involved. May include such topics as information and referral; digital reference; literacy services; services to the elderly; services to under-served populations and nontraditional users.

**Requisites:** Cons inst; repeatable; max of 6 cr applic to Masters degree**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**L I S 848 – TOPICS IN LITERATURE FOR CHILDREN AND YOUNG ADULTS**

1-3 credits.

Seminar. Trends and issues in children's and young adult reading, viewing, and listening interests. Topics vary. Typical focuses: realistic young adult novel; publishing trends; rise of book clubs; illustrations and illustrators; mixed media programming.

**Requisites:** Graduate standing in SLIS; repeatable; maximum of 6 credits applicable to the Masters degree**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2014**L I S 855 – TOPICS IN INFORMATION AGENCY MANAGEMENT**

1-3 credits.

Critical examination of selected management techniques in the areas of materials control, physical plant operations, personnel programs, budget preparation and statistical reporting. May also focus on a particular type of information agency; e.g., data analysis centers, research libraries, or public libraries.

**Requisites:** Graduate standing in SLIS; may be repeated, maximum of 6 credits applicable to Masters degree**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**L I S 875 – TOPICS IN INFORMATION PROCESSING AND RETRIEVAL**

1-3 credits.

Current issues in technologies for information processing and retrieval in libraries and information agencies. May be repeated for cr; a max of 6 cr applicable to Masters degree

**Requisites:** Cons inst.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016

**L I S 879 – DIGITAL LIBRARIES**

3 credits.

Technologies and other related topics/issues in developing and maintaining digital libraries. Covers digitization and organization of information, user-centered systems design and evaluation, public services, funding, and so on. Project-based course.

**Requisites:** LIS 450, 551 cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**L I S 910 – SMR-RESEARCH DESIGN & METHODOLOGY FOR LIBRARY & INFORMATION STUDIES**

3 credits.

Examines key issues in research design, including how to formulate research questions and shape scholarly research to make valid descriptive and causal inferences. Analysis and evaluation of research designed and conducted with different theoretical frameworks and methodologies; guided proposal preparation.

**Requisites:** SLIS Doctoral student; may be repeated; maximum of 6 credits applicable for doctoral degree**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**L I S 931 – SEMINAR IN INFORMATION POLICY, MANAGEMENT AND INSTITUTIONS**

3 credits.

Survey of research and theorizing of: information policy and law, the management of information within and between organizations - including information technology and information labor, and investigation of traditional and new institutions in the information society.

**Requisites:** Post-masters st in SLIS or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**L I S 940 – SEMINAR IN INFORMATION USE AND USERS IN CONTEXT**

3 credits.

Exploration of information needs, information seeking behavior, and information use by people in various roles, situations, and contexts that go beyond libraries. It includes exploring factors that influence a user's information needs and behavior.

**Requisites:** Post-Masters st in SLIS or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**L I S 950 – SEMINAR IN LIS FOUNDATIONS: HISTORIES, PHILOSOPHIES AND DEBATES**

3 credits.

An in-depth examination of some aspect(s) of the historical and philosophical foundations of LIS as it has been transformed through time and space, within the broader cultural context.

**Requisites:** Post-masters st in SLIS or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**L I S 975 – SEMINAR IN INFORMATION ORGANIZATION AND ACCESS**

3 credits.

Critical examination of technical and non-technical aspects and cognitive/socio-cultural processes and implications of systems and models of information organization, retrieval and transfer. Introduces different research approaches and topic areas, including relevance, search behavior, knowledge representation, and systems design and evaluation.

**Requisites:** Post-masters st in SLIS or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**L I S/HISTORY 976 – SPECIAL PROBLEMS IN ARCHIVES-MANUSCRIPTS ADMINISTRATION**

3 credits.

A research seminar. Contemporary problems in archives administration, with special types of archival institutions and special classes of archival material.

**Requisites:** LIS 734 or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2011**L I S/HISTORY 977 – THE PRACTICE OF ARCHIVES-MANUSCRIPTS ADMINISTRATION**

3 credits.

Practical training in the collecting and accessioning, arrangement, describing and servicing of archives and manuscript holdings in the Division of Archives and Manuscripts of the State Historical Society under the direct supervision of the chief archivist or a member of the professional staff.

**Requisites:** LIS 734 or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2010

**L I S 990 – RESEARCH AND THESIS**

1-9 credits.

Doctoral students.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**L I S 999 – INDEPENDENT READING AND RESEARCH**

1-4 credits.

Concentrated work on a subject or problem of the student's need or interest; students must submit a typewritten report or paper covering the work accomplished.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## LIFE SCIENCES COMMUNICATION (LSC)

**LSC 1 – COOPERATIVE EDUCATION/CO-OP IN LIFE SCIENCES COMMUNICATION**

1 credit.

Full-time off-campus work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career. Students receive credit only for the term in which they are actively enrolled and working. The same work experience may not count towards credit in Life Sciences Communication 399.

**Requisites:** So st, and consent of supervising instructor and academic advisor.**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**LSC 100 – SCIENCE AND STORYTELLING**

3 credits.

Fundamentals of effective written and spoken communication. Develops skills in gathering and evaluating information, writing research papers and other documents, and preparing and delivering oral presentations.

**Requisites:** Students may enroll for only one Communications A course taken in residence**Course Designation:** Gen Ed - Communication Part A Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LSC 111 – SCIENCE AND TECHNOLOGY NEWSWRITING**

3 credits.

Principles of journalism and essentials of journalistic writing applied to agriculture, natural resources, science, health and related topics.

**Requisites:** Sophomore standing**Course Designation:** Gen Ed - Communication Part B**Repeatable for Credit:** No**Last Taught:** Fall 2017**LSC 212 – INTRODUCTION TO SCIENTIFIC COMMUNICATION**

3 credits.

Writing effective science digests, proposals, newsletters, and trade magazine articles for agriculture, natural resources, health and science-related topics.

**Requisites:** Sophomore standing**Course Designation:** Gen Ed - Communication Part B**Repeatable for Credit:** No**Last Taught:** Fall 2017**LSC 250 – RESEARCH METHODS IN THE COMMUNICATION INDUSTRY**

3 credits.

Introduction to research methods in the communication industry. Overview of all stages of the research process (survey, focus groups, etc.) and of translating data into reports for expert and lay audiences and into effective campaign strategies.

**Requisites:** Sophomore Status**Course Designation:** Breadth - Social Science**Repeatable for Credit:** No**Last Taught:** Fall 2017**LSC 251 – SCIENCE, MEDIA AND SOCIETY**

3 credits.

Introduction to communication at the intersection of science, politics and society. Overview of the theoretical foundations of science communication and their relevance for societal debates about science and emerging technologies.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**LSC 270 – COMMUNICATION IN LIFE SCIENCE INDUSTRIES**

3 credits.

Techniques of achieving clarity, brevity and effectiveness in the life sciences communication industry: communication planning, preparation and examination for internal and external life sciences industry audiences.

**Requisites:** L SC COM 100, L SC COM 111, or L SC COM 212; or declared in the Business Management for Agricultural and Life Sciences certificate**Repeatable for Credit:** No**Last Taught:** Fall 2017

**LSC 289 – HONORS INDEPENDENT STUDY**

1-2 credits.

Inter-Ag 288

**Requisites:** Enrolled in the CALS Honors Program Sophomore or Junior standing.**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions**LSC 299 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Open to Freshmen or Sophomore or Junior standing written consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014**LSC 314 – INTRODUCTION TO DIGITAL VIDEO PRODUCTION**

3 credits.

Principles and techniques of digital documentary and informational video production. Video styles and subject matter treatment analyzed. Information gathering, videography, scripting, producing, and editing techniques.

**Requisites:** Sophomore standing**Repeatable for Credit:** No**Last Taught:** Fall 2017**LSC 320 – FEATURE WRITING**

3 credits.

Advanced writing techniques and in-depth article development, emphasizing agriculture, environment, science, and health topics.

**Requisites:** L SC COM 111 or L SC COM 212**Repeatable for Credit:** No**Last Taught:** Spring 2013**LSC 332 – PRINT AND ELECTRONIC MEDIA DESIGN**

3 credits.

Principles and techniques of effective layout with desktop publishing software for specialized print and electronic publications.

**Requisites:** Sophomore standing**Repeatable for Credit:** No**Last Taught:** Fall 2017**LSC 350 – VISUALIZING SCIENCE AND TECHNOLOGY**

3 credits.

Introduction to the basic principles in the visual communication of science information. Principles of design, perception, cognition as well as the use of technologies in the representation of science in the mass media will be explored through illustrated lectures and written critique. Open to all majors

**Requisites:** Sophomore standing.**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LSC 360 – INFORMATION RADIO**

3 credits.

Radio writing, editing, information gathering, planning, voicing, and evaluation using digital recording and editing equipment. Students write, produce and voice newscasts, advertisements, public service announcements, interviews, and features. Final project: team produce a radio program with science or consumer theme.

**Requisites:** LS SC COM 100, 111 or 212**Course Designation:** Gen Ed - Communication Part B**Repeatable for Credit:** No**Last Taught:** Fall 2017**LSC 375 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Cons inst**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**LSC 399 – COORDINATIVE INTERNSHIP/COOPERATIVE EDUCATION**

1-8 credits.

**Requisites:** Cons suprvg inst, advisor, intrshp prog coordinator**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LSC 400 – STUDY ABROAD IN AGRICULTURAL JOURNALISM**

1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. W.-Madison Study Abroad Program

**Requisites:** Current registration in a U.**Repeatable for Credit:** Yes, unlimited number of completions**LSC 430 – COMMUNICATING SCIENCE WITH NARRATIVE**

3 credits.

Understand how narrative theory influences audiences in presenting science; analyze the role of metaphor in communicating science; integrate effective writing structures for explaining complex science; learn writing and editing skills for best practices in science communication.

**Requisites:** (LSC 111 or LSC 212) and LSC 251**Course Designation:** Gen Ed - Communication Part B

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LSC 431 – ADVERTISING IN THE LIFE SCIENCES**

3 credits.

Using marketing communication principles to make advertising decisions for agricultural inputs and food products; creating print, radio, television and multi-media advertisements.

**Requisites:** Sophomore standing and LSC 251**Repeatable for Credit:** No**Last Taught:** Fall 2016



**LSC 432 – SOCIAL MEDIA FOR THE LIFE SCIENCES**

3 credits.

Explores social media communication and tools specific to the life sciences, and will be centered on building the student's social media presence. Coursework will include a variety of readings from peer-reviewed papers, marketing, business and communication journals.

**Requisites:** Sophomore standing and LSC 251 or graduate standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LSC 435 – THEORY AND PRACTICE OF INTEGRATED MARKETING COMMUNICATION**

3 credits.

This course provides practical insight into integrated marketing communication through analysis of contemporary developments in the marketplace together with theoretical background through readings from published scholarly research. It emphasizes information-seeking, oral presentation skills, and is writing-intensive.

**Requisites:** Sophomore standing and LSC 270

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LSC 440 – CONTEMPORARY COMMUNICATION TECHNOLOGIES AND THEIR SOCIAL EFFECTS**

3 credits.

Explores the growth of the information industry. Looks at the characteristics and spread of new communication technologies. Evaluates their social, economic and political effects. Attention is given to rural-urban differences.

**Requisites:** Sophomore standing and LSC 251

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LSC/AMER IND 444 – NATIVE AMERICAN ENVIRONMENTAL ISSUES AND THE MEDIA**

3 credits.

Explores public understanding and media coverage of Native American environmental issues including treaty rights, air and water quality, land-into-trust, and sacred sites. Analysis of organizational and structural constraints of media coverage relating to issues of sovereignty and intergovernmental relationships.

**Requisites:** Sophomore standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LSC 450 – DOCUMENTARY PHOTOGRAPHY FOR THE SCIENCES**

3 credits.

Trains students in visual storytelling and how to think photographically for communicating science, health and the environment. Students study the contributions of social documentary photography while assignments create a portfolio of documentary photography, and final team projects create effective still-image video stories that employ intellectual property rights.

**Requisites:** L SC COM 350

**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**LSC 477 – NAMA PROJECT: AGRI-MARKETING STRATEGY AND IMPLEMENTATION**

2 credits.

A full-scale marketing campaign culminating in a national student competition for National Agricultural Marketing Association during their annual convention held every spring. Development of campaign plan includes brand identity, associated visuals, market research, strategic communication, competitive analysis, presentation skills, and learning how to work as a team toward a common goal.

**Requisites:** Consent of Instructor required to enroll

**Repeatable for Credit:** Yes, for 8 number of completions

**Last Taught:** Spring 2017

**LSC 505 – PUBLICATIONS EDITING**

3 credits.

Principles and techniques for effective editing and production of specialized information publications and documents.

**Requisites:** Junior standing Ag Journ 111 or equivalent or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**LSC 515 – PUBLIC INFORMATION CAMPAIGNS AND PROGRAMS**

3 credits.

Design, production and evaluation of communication programs aimed at informing and educating publics about agricultural, environment, science, health and human ecology issues.

**Requisites:** Senior standing, declared in Life Sciences Communication, LSC 250 and LSC 251

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LSC 532 – WEB DESIGN FOR THE SCIENCES**

3 credits.

This class gives students an opportunity to design websites that focus on agricultural, life and social sciences. It covers characteristics of web users, science information goals for websites, needs assessment, search strategies, formative evaluations, legal issues.

**Requisites:** Sophomore standing, (LSC 111 or LSC 212) and LSC 251 or graduate standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LSC 560 – SCIENTIFIC WRITING**

3 credits.

This course is intended for students in science disciplines to learn how to communicate and translate scientific research for a general audience.

Not open to students declared in Life Sciences Communication

**Requisites:** Senior or graduate standing.

**Course Designation:** Gen Ed - Communication Part B

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**LSC 614 – ADVANCED VIDEO PRODUCTION**

3 credits.

An advanced digital video production course. Students will receive advanced instruction in producing, videography, scripting, and editing digital video.

**Requisites:** L Sc Com 314

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**LSC/COM ARTS/JOURN 617 – HEALTH COMMUNICATION IN THE INFORMATION AGE**

3 credits.

This course will examine the role of communication in health, how the revolution in information technology has affected health communication, and the assumptions about health information and communication that drive current efforts to use technologies.

**Requisites:** JOURN 565 or equivalent

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LSC 625 – RISK COMMUNICATION**

3 credits.

Examines risk as a central concept in the communication process through case studies from science, technology, environment, and health.

**Requisites:** Jr or Grad st and L Sc Com 250, L Sc Com 251, or equiv, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LSC 640 – CASE STUDIES IN THE COMMUNICATION OF SCIENCE AND TECHNOLOGY**

3 credits.

Examination of social scientific research addressing characteristics of science, public understanding of science, science news, and relationships between scientists and journalists. Application of this knowledge to several case studies examining the function of communication in specific scientific or technical contexts.

**Requisites:** Senior standing, declared in Life Sciences Communication, LSC 250 and LSC 251

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LSC 660 – DATA ANALYSIS IN COMMUNICATIONS RESEARCH**

3 credits.

How to use chi-square, analysis of variance, simple and multiple correlation and regression analysis, and various nonparametric tests in communication research.

**Requisites:** Senior or Grad standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**LSC 681 – SENIOR HONORS THESIS**

2-4 credits.

**Requisites:** Honors program candidacy

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LSC 682 – SENIOR HONORS THESIS**

2-4 credits.

Continuation of 681.

**Requisites:** Honors program candidacy Ag JOURN 681

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**LSC 699 – SPECIAL PROBLEMS**

1-4 credits.

**Requisites:** Sr st cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**LSC 700 – COLLOQUIUM IN LIFE SCIENCES COMMUNICATION**

1 credit.

Gives graduate students exposure to the many faculty across the UW campus who work on communication issues within their own fields. Weekly speakers represent diverse departments and other units; many will focus on science, health technology and related issues.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**LSC 720 – INTRODUCTION TO COMMUNICATION THEORY AND RESEARCH**

3 credits.

Introduction of concepts fundamental to conduct of social scientific research, overview of history and structure of field of communication, survey of major theoretical perspectives on mass communication at both micro and macro levels, with treatment of micro-macro and mass-interpersonal integration.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**LSC/JOURN 811 – CONCEPTUALIZATION AND DESIGN OF MASS COMMUNICATION RESEARCH**

2-3 credits.

Assists students in turning research questions into substantive research designs with understanding of the concepts involved. For most students, the final product will be a well-developed thesis or dissertation proposal.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**LSC/ENVIR ST/JOURN 823 – SCIENCE AND ENVIRONMENT COMMUNICATION**

3 credits.

Course uses available scholarship and commentary to track the evolution of mass media coverage of science and the environment. Emphasis on how journalists utilize evidence, the influence of scientific and journalistic norms on stories, and the effects of mass media on science and environment messages to the public.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**LSC/JOURN 825 – ETHICS AND COMMUNICATION**

3 credits.

Explores critical media ethics questions shaped by practices in a disruptive digital environment.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**LSC/JOURN 826 – JOURNALISM THEORY**

3 credits.

Focus on the content and purposes of journalism, explores cultural values associated with journalism, relationships between journalism and other institutions, and current issues facing journalists at a time when the profession faces many challenges.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**LSC/COM ARTS/JOURN 831 – PSYCHOLOGY OF ENTERTAINMENT MEDIA**

3 credits.

This course is designed to provide an in-depth look into entertainment media, including its effects on individuals, social groups, and society. The focus on entertainment content is across platforms - from "mass" to social media. Emphasis will be paid to psychological, individual-level effects.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**LSC/JOURN 833 – TECHNOLOGY AND SOCIETY**

3 credits.

This seminar considers the effects of new communication technologies on everyday life and political mobilization.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**LSC/JOURN 840 – STRATEGIC MASS COMMUNICATION**

3 credits.

Intensive readings focusing on theories, strategies, and methods involved in the strategic uses of mass communication. The course may focus on macro or micro issues.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2008

**LSC 875 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LSC/JOURN 880 – TOPICS IN MASS COMMUNICATION**

3 credits.

In-depth investigation of a specific topic in mass communication.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LSC/JOURN 901 – COLLOQUIUM IN MASS COMMUNICATION**

1 credit.

May be repeated to a maximum of 3 credits. Colloquium series for communication graduate students. Course will offer research presentations by mass communication scholars, and is designed to acquaint graduate students with theoretical and methodological approaches to the study of communication.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LSC 902 – PUBLIC OPINION OF LIFE SCIENCE ISSUES**

3 credits.

Advanced seminar on public opinion surrounding the science issues and science policy. Examines the intersection of public opinion, science, and politics; issues related to public opinion measurement; and the importance of public opinion for different aspects of life science communication.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**LSC 990 – RESEARCH**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LSC 999 – INDEPENDENT RESEARCH**

1-3 credits.

Independent research.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LINGUISTICS (LINGUIS)****LINGUIS 101 – HUMAN LANGUAGE**

3 credits.

Elementary theory and practical work in phonetics, phonology, morphology, and syntax, with attention to formal grammar. Stdts may not receive cr for both LINGUIS 101 301

**Requisites:** Open to Fr.**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LINGUIS 103 – LANGUAGE, HISTORY, AND SOCIETY**

3 credits.

Relation of variation and change to formal properties of human language; consideration of linguistic typology, basic concepts and methods of diachronic analysis. Topics include: language classification; language and social identity, geography, power and prestige; language contact; registers; writing systems. Stdts may not receive cr for both 103 303

**Requisites:** Open to Fr.**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2009**LINGUIS/ANTHRO/FOLKLORE/INTL ST 211 – GLOBAL LANGUAGE ISSUES**

4 credits.

A series of modules, each showcasing one language and its culture. Each module tackles a major issue about language, such as extinction and revival, language and nationhood, how widely and deeply languages differ, language and worldview, writing systems and literacy, language discrimination and inequality.

**Requisites:** Open to Fr**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016

**LINGUIS 236 – BASCOM COURSE**

3 credits.

A low-enrollment course developing skills in critical reading, logical thinking, use of evidence, and use of library resources. Emphasis on writing in the conventions of specific fields. Open to Fr.

**Requisites:** Successful completion of or exemption from Com A requirement.

**Course Designation:** Gen Ed - Communication Part B

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**LINGUIS 237 – LANGUAGE & IMMIGRATION IN WISCONSIN**

3 credits.

Migration from abroad and other parts of North America brought and continues to bring myriad languages and dialects to Wisconsin. How and when did these immigrants and their descendants learn English and when and why did they begin to speak only English? How have immigrants shaped how English is spoken in the state? We will do hands-on, original research to find answers to these and related questions about immigrant languages and English past and present in Wisconsin. We'll examine social and historical issues and issues of linguistic structure, drawing on local histories, archival data, Census records and audio recordings and there are opportunities to do fieldwork in communities across the state and the region.

**Requisites:** None

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LINGUIS 299 – DIRECTED STUDY**

1-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 1983

**LINGUIS/ANTHRO 301 – INTRODUCTION TO LINGUISTICS: DESCRIPTIVE AND THEORETICAL**

3 credits.

Elementary theory and practical work in phonetics, phonology, morphology, and syntax, with attention to formal grammar. Stdts may not receive cr for both LINGUIS 101 301

**Requisites:** Open to Fr.

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LINGUIS 303 – LANGUAGE, HISTORY, AND SOCIETY**

3 credits.

Relation of variation and change to formal properties of human language; consideration of linguistic typology, basic concepts and methods of diachronic analysis. Topics include: language classification; language and social identity, geography, power and prestige; language contact; registers; writing systems.

**Requisites:** Stdts may not receive cr for both 103 303

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LINGUIS 306 – GENERAL PHONETICS**

3 credits.

Theory of articulatory phonetics; practice in recognition, reproduction, and transcription of speech sounds and features in various languages.

**Requisites:** LINGUIS 101 or 301 or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LINGUIS 309 – GRAMMATICAL VARIABILITY OF LANGUAGE**

3 credits.

Introduction to theories of variation among world languages, focusing on syntactic phenomena. Not open to Fr

**Requisites:** LINGUIS 101 or 301 or cons inst.

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LINGUIS 310 – PHONOLOGY**

3 credits.

Analysis and formal statement of phonological systems; problems and methods of phonological theory.

**Requisites:** LINGUIS 101 or 301

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LINGUIS 322 – MORPHOLOGY**

3 credits.

Morphological characteristics of the world's languages. Introduction to theoretical approaches to morphology. Interaction between morphology and syntax; morphology and phonology.

**Requisites:** LINGUIS 310

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**LINGUIS 330 – SYNTAX**

3 credits.

Grammatical theory; types of elements and processes usable in syntactic description of various sorts.

**Requisites:** LINGUIS 101 or 301**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LINGUIS 340 – SEMANTICS**

3 credits.

Meaning in natural languages, relationship between syntax and semantics, compositional semantics.

**Requisites:** LINGUIS 330 or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**LINGUIS/AMER IND 371 – SURVEY OF NORTH AMERICAN INDIAN LANGUAGES**

3 credits.

Overview of native languages of North America, including topics such as history, distribution, diversity, government policy, language endangerment, elaboration of cultural domains, language and worldview, speech styles, language structure (phonology, morphology, grammatical categories), performance (narrative, song), writing systems.

**Requisites:** None**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**LINGUIS 373 – TOPICS IN LINGUISTICS**

3 credits.

Topic varies with instructor. May be repeated. Open to Fr

**Requisites:** Cons inst.**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LINGUIS 426 – FIELD METHODS I**

3 credits.

Collection and analysis of phonetic, phonological, and morphological data from a particular language, using one or more speakers as consultants.

**Requisites:** LINGUIS 310 or cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**LINGUIS 427 – FIELD METHODS II**

3 credits.

Collection and analysis of morphological, syntactic, and semantic data from a particular language, using one or more speakers as consultants.

**Requisites:** LINGUIS 310 either 322 or 330, or cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**LINGUIS/ANTHRO/LCA 430 – LANGUAGE AND CULTURE**

3-4 credits.

The relationship of language as a communication system to the culture transmitted by it. Principle problems in the interrelations of language and nonlinguistic human behavior.

**Requisites:** So st or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**LINGUIS 481 – JUNIOR HONORS TUTORIAL**

1 credit.

**Requisites:** Consent of instructor**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**LINGUIS 482 – JUNIOR HONORS TUTORIAL**

1 credit.

**Requisites:** Consent of instructor**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016



**LINGUIS 510 – PHONOLOGICAL THEORIES**

3 credits.

Theories of phonology, and advanced phonological description.

**Requisites:** LINGUIS 310**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**LINGUIS 522 – ADVANCED MORPHOLOGY**

3 credits.

Advanced morphological theory.

**Requisites:** LINGUIS 322**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LINGUIS 530 – SYNTACTIC THEORIES**

3 credits.

Theories of syntax, and syntactic description. The relation of syntax to semantics, and other aspects of linguistic theory.

**Requisites:** LINGUIS 330**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**LINGUIS 540 – ADVANCED SEMANTICS**

3 credits.

Indexicality, reference and quantification, intensionality, and tense.

**Requisites:** LINGUIS 340**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2012**LINGUIS 561 – INTRODUCTION TO EXPERIMENTAL PHONETICS**

3 credits.

Design and conduct of phonetic experiments; survey of instrumentation and techniques of investigating physiological, physical, and perceptual aspects of linguistic phenomena. Theory of acoustic phonetics. Lectures, demonstrations, lab, readings.

**Requisites:** A phonetics course or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2009**LINGUIS 562 – ADVANCED EXPERIMENTAL PHONETICS**

3 credits.

Continuation of 561, with development of lab skills applied to real language problems. Relations of instrumental evidence to phonetic and phonological systems and universals. Statistical and psycholinguistic aspects. Lectures, demonstrations, lab, readings, term project.

**Requisites:** LINGUIS 310 and 561**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2008**LINGUIS 571 – STRUCTURE OF A LANGUAGE**

3 credits.

In-depth study of all components of the grammar of a language.

**Requisites:** LINGUIS 310 330, or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LINGUIS 583 – SENIOR HONORS TUTORIAL**

1 credit.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**LINGUIS 584 – SENIOR HONORS TUTORIAL**

1 credit.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**LINGUIS 610 – TOPICS IN PHONOLOGICAL THEORY**

3 credits.

In-depth examination of a single phonological theory or a single area of recent phonological research. May be repeated for different topics.

**Requisites:** LINGUIS 510 or Grad st in linguistics or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017

**LINGUIS 681 – HONORS SEMINAR-SENIOR THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LINGUIS 682 – HONORS SEMINAR-SENIOR THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LINGUIS 699 – INDEPENDENT READING**

1-6 credits.

5, Jr or Sr st cons inst

**Requisites:** LS Undergrads need 2.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LINGUIS 800 – RESEARCH METHODS AND MATERIALS**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**LINGUIS 977 – SEMINAR**

2-3 credits.

See Linguistics 976 for course description.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**LINGUIS 978 – SEMINAR**

2-3 credits.

See Linguistics 976 for course description.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**LINGUIS 979 – SEMINAR**

2-3 credits.

See Linguistics 976 for course description.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LINGUIS 990 – THESIS**

1-12 credits.

Research in connection with the doctoral thesis.

**Requisites:** Grad st in linguistics**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**LINGUIS 999 – INDEPENDENT READING**

1-12 credits.

**Requisites:** Grad st in linguistics**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## LITERATURE IN TRANSLATION (LITTRANS)

**LITTRANS 201 – SURVEY OF 19TH AND 20TH CENTURY RUSSIAN LITERATURE IN TRANSLATION I**

3 credits.

Pushkin to Tolstoy; reading and lecture in English.

**Requisites:** Open to Fr**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LITTRANS 202 – SURVEY OF 19TH AND 20TH CENTURY RUSSIAN LITERATURE IN TRANSLATION II**

3 credits.

Dostoevsky to the present, reading and lecture in English.

**Requisites:** Open to Fr**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**LITTRANS 203 – SURVEY OF 19TH AND 20TH CENTURY RUSSIAN LITERATURE IN TRANSLATION I**

4 credits.

Pushkin to Tolstoy; reading and lecture in English; 4th hour discussion section for Communication-B credit.

**Requisites:** Open to Fr

**Course Designation:** Gen Ed - Communication Part B  
Breadth - Literature. Counts toward the Humanities req  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LITTRANS 204 – SURVEY OF 19TH AND 20TH CENTURY RUSSIAN LITERATURE IN TRANSLATION II**

4 credits.

Chekhov to the present; reading and lecture in English; 4th hour discussion section for Communication-B credit.

**Requisites:** Open to Fr

**Course Designation:** Gen Ed - Communication Part B  
Breadth - Literature. Counts toward the Humanities req  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LITTRANS/GEN&WS 205 – WOMEN IN RUSSIAN LITERATURE IN TRANSLATION**

3-4 credits.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LITTRANS 207 – SLAVIC SCIENCE FICTION THROUGH LITERATURE AND FILM**

3 credits.

Science Fiction (SF) is typically thought of as an American (or American-British) genre. This course explores the rich tradition of Slavic contributions to SF. We will survey early and contemporary works in the Czech, Polish, and Russian contexts, most of which are little known in the US but are nonetheless fundamental to SF as a world genre. Alongside reading these works, we will discuss and analyze film adaptations that have, in some cases, become more famous than written texts themselves.

**Requisites:** None

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LITTRANS 208 – THE WRITINGS OF VACLAV HAVEL: CRITIQUE OF MODERN SOCIETY**

3 credits.

Survey and critical analysis of the writings of Vaclav Havel from the 1960's through the 1990's: plays, philosophical and dissident essays, selected speeches as president. Readings in English.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**LITTRANS 209 – MASTERPIECES OF FRENCH LITERATURE AND CULTURE**

3 credits.

The entire span of French literature from the Middle Ages to the present as well as selected Francophone writers. Emphasis on literary movements and their cultural settings. Major authors will include Montaigne, Voltaire, Stendhal, Proust, de Beauvoir.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**LITTRANS 211 – MODERN INDIAN LITERATURES IN TRANSLATION**

3 credits.

Introduction for intermediate and advanced students to the systematic study of the literatures of India produced since about A.D. 1800, using a selection of poetry, fiction, drama, and/or nonfictional prose in translation from representative literary languages of the subcontinent.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014

**LITTRANS 213 – LOVE AND SEX IN ITALIAN COMEDY**

3-4 credits.

Through the close reading and discussion of selected major plays, this course explores Italian comedy and dramatic literature across the centuries, from its Roman origins to contemporary examples. Students will read and discuss texts representative of the major comedic modes (e.g. erudite, improvised, etc.), paying close attention to language and structure, genre debates, character typologies, performance history, and the cultural-historical contexts that informed playwrights. Discussion and targeted writing assignments will aim at cultivating in students a deeper understanding of Italian sensibilities and cultural attitudes regarding humor and satire, love and sex, tragedy within comedy, history, gender politics, public/private space, social customs, class, and other issues.

**Requisites:** None

**Course Designation:** Gen Ed - Communication Part B  
Breadth - Literature. Counts toward the Humanities req  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**LITTRANS 214 – LITERATURES OF CENTRAL ASIA IN TRANSLATION**

3 credits.

Critical survey of the development of medieval and modern literatures of the peoples of Central Asia from pre-Islamic times to the present with selected readings in English translation.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LITTRANS 215 – POLISH LITERATURE IN TRANSLATION: 14TH TO THE MID-19TH CENTURY**

3 credits.

The Beginnings, Baroque, Enlightenment and Romanticism.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**LITTRANS 218 – POLISH LITERATURE IN TRANSLATION: LATE 19TH AND 20TH CENTURIES**

3 credits.

A survey of the main currents in Polish literature since 1863.

**Requisites:** None

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**LITTRANS 220 – CHEKHOV IN TRANSLATION**

3-4 credits.

**Requisites:** So st

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**LITTRANS 221 – GOGOL IN TRANSLATION**

3-4 credits.

**Requisites:** So st

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**LITTRANS 222 – DOSTOEVSKY IN TRANSLATION**

3-4 credits.

Major works, lecture in English.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LITTRANS/ENGL 223 – VLADIMIR NABOKOV: RUSSIAN AND AMERICAN WRITINGS**

3 credits.

The major novels of Vladimir Nabokov studied in the context of Russian and American literatures. Nabokov as a quintessential artist in exile, whose work explores loss of language, country and home.

**Requisites:** Sophomore standing or consent of instructor

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LITTRANS 224 – TOLSTOY IN TRANSLATION**

3-4 credits.

Major works, lecture in English.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016

**LITTRANS 226 – INTRODUCTION TO LUSO-AFRO-BRAZILIAN LITERATURE**

3 credits.

Introduction to the cultural and literary practices of the Portuguese-speaking world. Readings include novels, short stories, and poetry from Portugal, Brazil, and Lusophone Africa. All readings and lectures in English.

**Requisites:** Open to all Undergrads**Course Designation:** Gen Ed - Communication Part B  
Breadth - Literature. Counts toward the Humanities req  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**LITTRANS/CLASSICS/JEWISH/RELIG ST 227 – INTRODUCTION TO BIBLICAL LITERATURE (IN ENGLISH)**

4 credits.

Introduction to the literature and literary history of the Old Testament, Apocrypha, Dead Sea Scrolls, Talmud, and Midrashim.

**Requisites:** Not open to students that have completed HEBR ST 217**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**LITTRANS 229 – REPRESENTATION OF THE JEW IN EASTERN EUROPEAN CULTURES**

3 credits.

The image and representation of the "Jew" and Jews in the literatures and cultures of the Slavic countries of Eastern Europe, including Russia, Poland, Serbia, Croatia, and Bosnia. Both pre- and post-Holocaust texts will be read and critically examined.

**Requisites:** Open to Fr with cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LITTRANS 231 – MANGA**

3 credits.

Surveys the manga (Japanese comicbook) from precursors in premodern woodblock-printed booklets to contemporary manifestations in subgenres like gekiga, mecha, shonen, and shojo. Draws on critical writings on literature, popular culture, and visual culture. Japanese language proficiency is not required.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LITTRANS 232 – ANIME**

3 credits.

Surveys anime (Japanese animation) from 1930s shorts through contemporary feature-length, experimental, and televised serial-form productions. Draws on critical writings on postmodernism, digital cinema, and visual culture. Japanese language ability is not required.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2016**LITTRANS 233 – RUSSIAN LIFE AND CULTURE THROUGH LITERATURE AND ART (TO 1917)**

3-4 credits.

Prerevolutionary Russian visual arts, architecture, music and cinema; provides an inside view of life in prerevolutionary Russia with the help of selected readings in Russian literature.

**Requisites:** Open to Fr**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LITTRANS 234 – SOVIET LIFE AND CULTURE THROUGH LITERATURE AND ART (FROM 1917)**

3-4 credits.

Postrevolutionary Russian and Soviet visual arts, architecture, music and cinema; provides an inside view of life under socialism with the help of selected readings in Soviet literature.

**Requisites:** Open to Fr**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LITTRANS/MEDIEVAL 235 – THE WORLD OF SAGAS**

3 credits.

The Icelandic sagas viewed in their social, cultural, and literary contexts. An introduction to one of the greatest bodies of vernacular literature of the early Middle Ages.

**Requisites:** Open to Fr**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015

**LITTRANS 236 – BASCOM COURSE-IN TRANSLATION**

3 credits.

A low-enrollment course developing skills in critical reading, logical thinking, use of evidence, and use of library resources. Emphasis on writing in the conventions of specific fields. Open to Fr.

**Requisites:** Successful completion of or exemption from Com A requirement.

**Course Designation:** Gen Ed - Communication Part B  
Breadth - Literature. Counts toward the Humanities req  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**LITTRANS/CLASSICS/JEWISH/RELIG ST 237 – BIBLICAL POETRY IN TRANSLATION**

3 credits.

A study of the poetry of the Hebrew Bible as literature within the context of other ancient Near Eastern poetry. Influence of biblical poetry on the Dead Sea Scrolls, New Testament, medieval Hebrew poetry, and Jewish and Christian liturgies.

**Requisites:** None

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**LITTRANS 240 – SOVIET LITERATURE IN TRANSLATION**

3-4 credits.

Lecture in English.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**LITTRANS 241 – LITERATURES AND CULTURES OF EASTERN EUROPE**

3 credits.

Introduction to the literature, culture, and art of Eastern Europe.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LITTRANS 247 – TOPICS IN SLAVIC LITERATURES IN TRANSLATION**

3 credits.

Exploration of periods, genres, individual writers, themes, problems, ect. in Russian and Eastern European literature.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**LITTRANS 249 – LITERATURE IN TRANSLATION: NINETEENTH-CENTURY FRENCH MASTERPIECES**

3 credits.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**LITTRANS 252 – SPANISH LITERARY MASTERPIECES IN TRANSLATION**

3 credits.

Major works of Spanish Peninsular literature in prose, drama and poetry. Readings and instruction will be in English.

**Requisites:** Undergraduate career students only (excludes Grad, Pharm, Law, Med, Vet Med, Guest, Special careers)

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LITTRANS/MEDIEVAL/RELIG ST 253 – LITERATURE IN TRANSLATION: DANTE'S DIVINE COMEDY**

3 credits.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**LITTRANS 254 – IN TRANSLATION: LIT OF MODERN ITALY-EXISTENTIALISM, FASCISM, RESISTANCE**

3 credits.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**LITTRANS 255 – LITERATURE IN TRANSLATION: BOCCACCIO'S DECAMERON-THE HUMAN COMEDY**

3 credits.

**Requisites:** So st or cons inst**Course Designation:** Gen Ed - Communication Part B

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LITTRANS 256 – LIT IN TRANSLATION: IMAGES OF THE INDIVIDUAL IN THE ITALIAN RENAISSANCE**

3 credits.

Introduction to the Renaissance concepts of the individual and individualism through major literary texts, including Boccaccio's Decameron, Machiavelli's Prince, and Cellini's Autobiography.

**Requisites:** So st**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2013**LITTRANS/RELIG ST 257 – LITERATURES OF MUSLIM SOCIETIES IN TRANSLATION**

3 credits.

LCA majors and all Grads register for LCA/RELIG ST 357

**Requisites:** Open to Fr.**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2014**LITTRANS 260 – ITALY AND THE INVENTION OF AMERICA: FROM COLUMBUS TO WORLD WAR II**

3 credits.

Focuses on the central role played by Italy in the European vision of America between Columbus's voyages and the Second World War.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LITTRANS 261 – SURVEY OF CHINESE LITERATURE IN TRANSLATION**

3 credits.

A critical introduction to the literature of China throughout the ages. Most representative traditional and modern works of Chinese poetry, fiction and drama. Two semesters may be taken independently.

**Requisites:** Open to Fr**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LITTRANS 262 – SURVEY OF CHINESE LITERATURE IN TRANSLATION**

3 credits.

Continuation of 261.

**Requisites:** Open to Fr**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LITTRANS 263 – SURVEY OF JAPANESE LITERATURE IN TRANSLATION**

3 credits.

A historical introduction to the important literary works of Japan. The first semester: the literary tradition before the restoration of 1868; the second semester: the literature of Japan during the last century. These two semesters may be taken independently.

**Requisites:** Open to Fr**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LITTRANS 264 – SURVEY OF JAPANESE LITERATURE IN TRANSLATION**

3 credits.

Continuation of 263.

**Requisites:** Open to Fr**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**LITTRANS 268 – FRENCH WOMEN WRITERS FROM THE MIDDLE AGES TO THE NINETEENTH CENTURY**

3 credits.

Representative texts of French women writers from Marie de France, the women troubadours, and Christine de Pizan to Madame de Stael and George Sand, in historical, social, and cultural context.

**Requisites:** Open to Fr**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LITTRANS/GERMAN/JEWISH 269 – YIDDISH LITERATURE AND CULTURE IN EUROPE**

3 credits.

Exploration of European Yiddish fiction, poetry, folklore, and cinema, with a focus on works of the 19th and 20th centuries.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**LITTRANS/GEN&WS 270 – GERMAN WOMEN WRITERS IN TRANSLATION**

3 credits.

**Requisites:** Open to Fr; not open to stdts who are taking or have taken German 302 or above

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LITTRANS 271 – IN TRANSLATION: MASTERPIECES OF SCANDINAVIAN LITERATURE, MIDDLE AGES-1900**

3-4 credits.

4th credit for Com-B stdts only

**Requisites:** Open to Freshmen.**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LITTRANS 272 – FRENCH POP CULTURE**

3 credits.

Through the exploration of landmark and popular French (and few international) texts, this course seeks to narrow the perceived gap between low/high art and it contextualizes historically and aesthetically French pop culture (as literature, film, graphic novel, music etc.).

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**LITTRANS 273 – URDU PROSE FICTION IN INDIA AND PAKISTAN IN TRANSLATION**

3 credits.

Major trends in Urdu fiction from the 1880's to the present, with emphasis on literary movements, narrative modes and techniques, stylistics and aesthetics. LCA majors all Grads register for LCA 373

**Requisites:** Open to Fr.**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2008**LITTRANS 274 – IN TRANSLATION: MASTERPIECES OF SCANDINAVIAN LITERATURE-THE 20TH CENTURY**

3-4 credits.

Continuation of 273. 4th credit for Com-B stdts only

**Requisites:** Open to Freshmen.**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LITTRANS 275 – IN TRANSLATION: THE TALES OF HANS CHRISTIAN ANDERSEN**

3-4 credits.

4th cr for Com-B stdts only

**Requisites:** Open to Fr.**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**LITTRANS/GERMAN 276 – SPECIAL TOPICS IN GERMAN AND WORLD LITERATURE/S**

3 credits.

Exploration of diverse world literary traditions, including German. All readings and lectures in English.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LITTRANS 277 – TOPICS IN TWENTIETH-CENTURY GERMAN LITERATURE (IN TRANSLATION)**

3 credits.

Discussion of major twentieth-century literary texts from Germany, Switzerland, and Austria by such authors as Franz Kafka, Bertolt Brecht, Anna Seghers, Friedrich Durrenmatt, Gunter Grass, Christa Wolf. Possible areas of emphasis: identity formation; technology and culture; literary representations of fascism. Open to Fr

**Requisites:** Not open to stdts who have taken or are taking German 302 or above.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**LITTRANS/GERMAN/JEWISH 279 – YIDDISH LITERATURE AND CULTURE IN AMERICA**

3 credits.

Exploration of American Yiddish poetry, fiction, theater, and cinema created by European Jews in the United States.

**Requisites:** Open to Freshmen

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LITTRANS 301 – MODERN INDONESIAN LITERATURE IN TRANSLATION**

3 credits.

Representative novels, short stories and essays from early 20th century to the present are placed in the literary and cultural context of Indonesia. LCA majors all Grads register for LCA 401

**Requisites:** So st or cons inst.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**LITTRANS 303 – SOUTHEAST ASIAN LITERATURE IN TRANSLATION**

3 credits.

Introduction to Southeast Asia through modern literature in its cultural and political context, focusing on the mainland (Vietnam and Thailand) in the fall semester and on the islands (Indonesia and the Philippines) in the spring. LCA majors all Grads register for LCA 403

**Requisites:** So st or cons inst.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**LITTRANS 304 – SOUTHEAST ASIAN LITERATURE IN TRANSLATION**

3 credits.

See Literature in Translation 303. LCA majors all Grads register for LCA 404

**Requisites:** So st or cons inst.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**LITTRANS/JEWISH 318 – MODERN JEWISH LITERATURE**

3-4 credits.

Pre-modern Jewish society's breakdown, immigration, the challenges of integration and exclusion, and the establishment of new communities will serve as a backdrop for the analysis and comparison of Jewish literary texts written in Hebrew, Yiddish, German, Russian, and English.

**Requisites:** Open to Freshmen

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LITTRANS/L I S 319 – SCANDINAVIAN CHILDREN'S LITERATURE**

3-4 credits.

Forms and themes of Scandinavian children's literature from the nineteenth century to the present. Exploration of the dominant concerns of authors, adult and non-adult audiences. Film adaptations and Scandinavian-American materials included.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**LITTRANS 324 – TOPICS IN SCANDINAVIAN LITERATURE**

3-4 credits.

An examination of selected topics in Scandinavian literature designed for students as literature in translation.

**Requisites:** Prerequisites vary by course

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**LITTRANS 326 – TOPICS IN DUTCH LITERATURE IN TRANSLATION**

3 credits.

Study of an author or theme in modern Dutch/Flemish literature, presented by the current Dutch/Flemish writer in residence.

**Requisites:** At least one intermed-level crse in lit

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**LITTRANS/JEWISH/RELIG ST 328 – CLASSICAL RABBINIC LITERATURE IN TRANSLATION**

3-4 credits.

Introduction to the literature of the Classical Rabbinic or Talmudic period of Judaism (2nd to 7th centuries CE). Historical and intellectual background; the interrelation of liturgy, legal and non-legal literature.

**Requisites:** Open to Freshmen

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**LITTRANS 329 – THE VAMPIRE IN LITERATURE AND FILM**

3 credits.

Explores the image of the vampire in literature and visual arts as a metaphor for Eastern Europe and the Slavic world. Begins with folklore and moves through literary texts to film and television.

**Requisites:** Sophomore standing or consent of instructor

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**LITTRANS 331 – IN TRANSLATION: SCANDINAVIAN TOPICS IN DEPTH**

1-2 credits.

Penetrating study of an important Scandinavian literary or cultural topic. Content will vary with each offering.

**Requisites:** Jr st or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**LITTRANS/CLASSICS/HEBR-BIB/JEWISH/RELIG ST 332 – PROPHETS OF THE BIBLE**

4 credits.

An introduction to the thought, literature, and history of the prophets of ancient Israel (in English).

**Requisites:** CLASSICS/JEWISH/LITTRANS/RELIG ST/CLASSICS/JEWISH/LITTRANS 227 or Sophomore standing

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**LITTRANS 334 – IN TRANSLATION: THE ART OF ISAK DINESEN/KAREN BLIXEN**

3-4 credits.

Blixen's tales and biographical fiction.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**LITTRANS/THEATRE 335 – IN TRANSLATION: THE DRAMA OF HENRIK IBSEN**

3-4 credits.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**LITTRANS/THEATRE 336 – IN TRANSLATION: THE DRAMA OF AUGUST STRINDBERG**

3-4 credits.

**Requisites:** Junior standing

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**LITTRANS 337 – IN TRANSLATION: 19TH CENTURY SCANDINAVIAN FICTION**

3-4 credits.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LITTRANS 338 – IN TRANSLATION: KNUT HAMSUN AND THE 20TH CENTURY NORWEGIAN NOVEL**

3-4 credits.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2009**LITTRANS 339 – IN TRANSLATION: KIERKEGAARD AND SCANDINAVIAN LITERATURE**

3-4 credits.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2012**LITTRANS 340 – CONTEMPORARY SCANDINAVIAN LITERATURE IN TRANSLATION**

3-4 credits.

Twentieth-century literary traditions and experiments, with attention to major movements, genres, and authors.

**Requisites:** Junior standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LITTRANS/FOLKLORE/MEDIEVAL/RELIG ST 342 – IN TRANSLATION: MYTHOLOGY OF SCANDINAVIA**

3-4 credits.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LITTRANS 343 – IN TRANSLATION: THE WOMAN IN SCANDINAVIAN LITERATURE**

3-4 credits.

**Requisites:** Jr st**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LITTRANS/FOLKLORE/MEDIEVAL 345 – IN TRANSLATION: THE SCANDINAVIAN TALE AND BALLAD**

3-4 credits.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LITTRANS/FOLKLORE/MEDIEVAL 346 – IN TRANSLATION: THE ICELANDIC SAGAS**

3-4 credits.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LITTRANS/FOLKLORE 347 – IN TRANSLATION: KALEVALA AND FINNISH FOLK-LORE**

3-4 credits.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**LITTRANS/LCA/THEATRE 348 – IN TRANSLATION: MODERN INDIAN THEATRE**

3 credits.

Study of drama, dramatic theory, and performance in modern India. Course considers interpenetration of Indian and Western systems of dramaturgy, relation between colonial and postcolonial institutions, socio-cultural and political contexts, and major modern dramatic genres.

**Requisites:** Junior standing or consent of instructor**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2010

**LITTRANS/THEATRE 349 – IN TRANSLATION: MODERN SCANDINAVIAN DRAMA**

4 credits.

Examination of the theater of Scandinavia in the wake of Henrik Ibsen and August Strindberg that places modern Nordic theater in a wider European context.

**Requisites:** Jr st**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2008**LITTRANS 350 – SCANDINAVIAN DECADENCE IN ITS EUROPEAN CONTEXT**

3-4 credits.

Examines the European context of literary decadence (Baudelaire, Huysmans, Wilde) and how it inspired some of Scandinavia's most important writers (Strindberg, Hamsun, Jacobsen).

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**LITTRANS 360 – FRENCH AND ITALIAN RENAISSANCE LITERATURE ONLINE**

3-4 credits.

A web-based course comprising 15 week-long units, organized as a virtual journey through Renaissance Italian and French cities. Each unit includes a lecture and readings from main literary texts and cultural documents associated with the city or region.

**Requisites:** Open to all Undergrads**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**LITTRANS/JEWISH 367 – ISRAELI FICTION IN TRANSLATION**

3-4 credits.

Major writers, trends and themes in Israeli fiction from pre-State period to present. Meets with Hebrew Studies 343. 4th credit earned by prosmr meetings research paper

**Requisites:** Open to Fr.**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**LITTRANS 368 – MODERN JAPANESE FICTION**

3 credits.

Intensive study of novels and stories of three or four writers of the present century, such as Soseki, Tanizaki, Kawabata, and Mishima. Translations of high quality are main texts, but students of Japanese are encouraged to read as much as possible in the original.

**Requisites:** Not open to Fr**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**LITTRANS 372 – CLASSICAL JAPANESE PROSE IN TRANSLATION**

3 credits.

Examination of the major prose genres of Japanese literature to 1868. Primary focus on Heian women writers, including the Tale of Genji, or on major writers and genres of the Edo period. No knowledge of Japanese required.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2013**LITTRANS 373 – TOPICS IN JAPANESE LITERATURE**

3 credits.

Traces the evolution of a given idea through the course of Japanese literature. Possible topics include: women in Japanese fiction, effect of Buddhism on Japanese literature, reflections of everyday life in Japanese literature, and visual-verbal narration. Translations of high quality will be the principal texts, but students of Japanese will be encouraged to read as much as possible in the original.

**Requisites:** So st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**LITTRANS 374 – TOPICS IN KOREAN LITERATURE**

3 credits.

Traces the evolution of a given idea through Korean literature. Possible topics: women in Korean fiction, Confucianism on Korean literature, and contemporary literature and film. Texts: English translations, but students of Korean urged to read as much as possible in the original.

**Requisites:** So st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015



**LITTRANS 400 – MACHIAVELLI AND HIS WORLD**

3 credits.

Introduces students to the major works of Machiavelli through the close reading of his writings in cultural and historical contexts. Discussion and targeted writing assignments will aim at cultivating in students 1) a broad understanding of Machiavelli's principal intellectual attitudes, 2) a deeper understanding of his literary sensibility, and 3) the ability to articulate controversies and complexities surrounding his thought.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**LITTRANS 410 – IN TRANSLATION: SPECIAL TOPICS IN ITALIAN LITERATURE**

3 credits.

Treatment of a specific period, genre, theme or movement in Italian literature.

**Requisites:** So st**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**LITTRANS/THEATRE 423 – IN TRANSLATION: SLAVIC DRAMA IN CONTEXT**

3 credits.

Slavic playwrights and the European tradition of theatre and drama.

**Requisites:** Sr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**LITTRANS/SCAND ST 428 – MEMORY AND LITERATURE FROM PROUST TO KNAUSGARD**

3 credits.

Investigates the relations between theories of memory, both individual and collective, and modern literary representations of remembering.

We survey seminal conceptions of memory in the interdisciplinary field of memory studies, investigating topics such as nostalgia, trauma, personal and cultural identity, war and Holocaust, sites of memory, and autobiographical narrative. Through the avenues opened up by these theoretical frameworks, we consider the narrative forms as well as the ethical and political dimensions of remembering in major novels by Marcel Proust, W. G. Sebald, and Karl Ove Knausgard.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**LITTRANS 454 – HISTORY OF SERBIAN AND CROATIAN LITERATURE**

3 credits.

Major literary movements of Serbian and Croatian literature from the medieval period until the formation of the Yugoslav state in 1919.

Readings in English.

**Requisites:** So st**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2013**LITTRANS 455 – MODERN SERBIAN AND CROATIAN LITERATURE IN TRANSLATION**

3 credits.

Continuation of Slavic 450, from 1919 until the present. Study of major twentieth-century writers. Readings in English.

**Requisites:** So st**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**LITTRANS 471 – POLISH LITERATURE (IN TRANSLATION), MIDDLE AGES TO 1863**

3 credits.

Intensive study of major writers such as Kochanowski, Krasicki, and Mickiewicz.

**Requisites:** Junior standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**LITTRANS 473 – POLISH LITERATURE (IN TRANSLATION) SINCE 1863**  
3 credits.

A comprehensive survey of Polish literature and its historical background from 1863 to the present. Readings in English.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

## MANAGEMENT AND HUMAN RESOURCES (M H R)

**M H R 300 – MANAGING ORGANIZATIONS**  
3 credits.

The Management of Organizations: Strategy, Culture, Structure, Teams, Leadership, Human Resources, Entrepreneurship, and Change Management. Not open to students with senior standing beginning summer 2018

**Requisites:** Declared in a School of Business undergraduate major, Certificate in Business, or Certificate in Entrepreneurship.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**M H R 305 – HUMAN RESOURCE MANAGEMENT**  
3 credits.

Policies and practices; principles and techniques applicable to problems such as employee staffing, training, labor relations, wages, communications, etc. . Not open to grad stdts

**Requisites:** So, Jr or Sr st.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**M H R/ENVIR ST 310 – CHALLENGES & SOLUTIONS IN BUSINESS SUSTAINABILITY**  
3 credits.

This course provides students with central knowledge and skills to tackle challenges at the intersection of business and sustainability. Students will study the failures in market and decision making systems that lead to sustainability challenges, and learn how to address these challenges on the policy, organizational, and individual level.

**Requisites:** Sophomore standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**M H R 320 – NEW VENTURES IN BUSINESS, THE ARTS AND SOCIAL ENTREPRENEURSHIP**

3 credits.

Students develop capabilities to create new ventures that create value, and critically analyze role of entrepreneurship in society.

Activities: Imagine/design new ventures, identify markets and funding sources, develop founding teams, do scholarly research on impact of entrepreneurship. Not open to Grad stdts

**Requisites:** Fr, So, Jr, or Sr st.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**M H R 321 – SOCIAL ENTREPRENEURSHIP**  
1 credit.

For the student interested in creating socially-engaged businesses and using entrepreneurial approaches to non-profit ventures. Activities include developing mission statement, assessing social impact, seeking funding from varied sources. Guest lecturers, cases, role playing. Course grounded in management theory. Not open to Grad stdts

**Requisites:** Fr, So, Jr, or Sr st.

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**M H R 322 – INTRODUCTION TO ENTREPRENEURIAL MANAGEMENT**  
3 credits.

Students gain knowledge about foundations of entrepreneurship, and key topics such as founding teams, industry analysis assessing concept, communication, managing people and investors in new ventures. Business development project included. Not open to Grad Stdts

**Requisites:** Fr, So, Jr or Sr st.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**M H R 365 – CONTEMPORARY TOPICS**  
1-3 credits.

A course for the exploration of subject areas possibly to be introduced into the business curriculum. Not open to grad stdts. Prerequisite varies by topic.

**Requisites:** So, Jr or Sr st; cons inst.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**M H R 399 – READING AND RESEARCH-MANAGEMENT**  
1-6 credits.

Not open to grad stdts

**Requisites:** Jr or Sr st; cons inst.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**M H R 401 – THE MANAGEMENT OF TEAMS**

3 credits.

Examines components that comprise teams, highlights key factors that influence team effectiveness, develops skills in diagnosing opportunities and threats that face teams, and enhances teamwork expertise. Not open to grad stdts

**Requisites:** Jr or Sr st; MHR 300.**Repeatable for Credit:** No**Last Taught:** Fall 2017**M H R/INTL BUS 403 – GLOBAL ISSUES IN MANAGEMENT**

3 credits.

This course focuses on the strategic management required in global business. Topics include environmental analysis, global strategy, and subsidiary control. The aim of the course is to develop special skills that are required to manage international firms. Not open to grad stdts

**Requisites:** Jr st or Sr st.**Repeatable for Credit:** No**Last Taught:** Fall 2017**M H R 412 – MANAGEMENT CONSULTING**

3 credits.

Offers an understanding of fundamental principles, methods, and tools used in management consulting and develop skills to diagnose the functioning of an organization, problem solving, and to design and implement interventions to enhance individual, group, and organizational effectiveness.

**Requisites:** So St, MHR 300**Repeatable for Credit:** No**Last Taught:** Spring 2017**M H R 420 – MANAGING CHANGE AND ORGANIZATIONAL EFFECTIVENESS**

3 credits.

How large and complex organizations are structured, and basic managerial processes within organizations. Topics: Classical bureaucratic structure contrasted with contemporary organization structure; the impact of different organizational goals and environments on the structure of organizations; planning, coordination and control processes as related to different service and production technologies. Not open to grad stdts

**Requisites:** So, Jr or Sr st; MHR 300.**Repeatable for Credit:** No**Last Taught:** Spring 2011**M H R 422 – ENTREPRENEURIAL MANAGEMENT**

3 credits.

Addresses entrepreneurship as a career, a phenomenon and as a method of bringing ideas to market. Appropriate for students interested in starting entrepreneurial ventures, advising managers or working in a small business. Including opportunity discovery, business and financial planning. Not open to grad stdts

**Requisites:** Gen Bus 310 or Acct IS 300 or (Acct IS 100 Acct IS 211) or (Acct IS 100 FINANCE/ECON 300) Jr or Sr st.**Repeatable for Credit:** No**Last Taught:** Fall 2017**M H R 423 – STRATEGIC MANAGEMENT**

3 credits.

Synthesis of material from accounting, economics, finance, operations management, human resources, law, marketing, and technology to consider problems in corporate and business-level strategy; top management problems; discussion of actual business cases. Not open to grad students

**Requisites:** Junior or Senior standing; Acct IS 211; FINANCE/ECON 300; Marketing 300; MHR 300.**Repeatable for Credit:** No**Last Taught:** Fall 2017**M H R 427 – ENTREPRENEURIAL GROWTH STRATEGIES**

3 credits.

General management course that analyzes and integrates growth patterns and business disciplines in context of nascent and high growth firms. Not open to graduate students

**Requisites:** Junior or Senior standing; MHR 422; Acct IS 211.**Repeatable for Credit:** No**Last Taught:** Fall 2017**M H R 434 – VENTURE CREATION**

3 credits.

Intended for students who seek to transform their own ideas into new ventures. Students will learn the process of evaluating, formalizing, and communicating a new venture idea. Student originated product/service/venture concept required for course. Not open to graduate students

**Requisites:** Sophomore, Junior or Senior standing.**Repeatable for Credit:** No**Last Taught:** Fall 2017**M H R 441 – TECHNOLOGY ENTREPRENEURSHIP**

3 credits.

Designed for undergraduate students interested in learning about the fundamental issues related to starting and managing technology-based new ventures. Encourages students to consider how technology-based solutions can solve economic and socially oriented problems.

**Requisites:** So, Jr or Sr st; Not open to Grad stdts**Repeatable for Credit:** No**Last Taught:** Spring 2017**M H R 470 – SEMINAR: ORGANIZATIONAL ISSUES**

3 credits.

Analysis and discussion of selected issues in organizational strategy, behavior, theory, design, or entrepreneurship. Not open to grad stdts

**Requisites:** Jr or Sr st; MHR 300 MHR 420 or con reg.**Repeatable for Credit:** No**Last Taught:** Spring 2011**M H R 471 – SEMINAR: HUMAN RESOURCES ISSUES**

3 credits.

Analysis and discussion of selected issues in human resource management. Not open to grad stdts

**Requisites:** Jr or Sr st; MHR 300 305.**Repeatable for Credit:** No**Last Taught:** Spring 2009

**M H R/A A E 540 – INTELLECTUAL PROPERTY RIGHTS, INNOVATION AND TECHNOLOGY**

3 credits.

Uses economic concepts to illustrate the nature of technological innovation, competition, and economic growth. Topics: economics of the intellectual property protection (IPP); market structure and innovation; interaction between public and private sectors; IPP and anticompetitive policies; globalization.

**Requisites:** ECON 301 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**M H R 610 – COMPENSATION: THEORY AND ADMINISTRATION**

3 credits.

Determinants of wage levels, wage structures and individual wages; analysis of the impact of wages on individual attitudes and decisions to participate and perform in organizations. Open to grad stdts

**Requisites:** Jr or Sr st; MHR 305 or 705.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**M H R 611 – PERSONNEL STAFFING AND EVALUATION**

3 credits.

Designed to help students develop an understanding of personnel staffing. This includes staffing strategy, legal compliance, staffing planning, job analysis, external recruitment, internal recruitment, measurement, external selection, internal selection, employment decision-making, and staffing system management. Open to grad stdts

**Requisites:** Jr or Sr st; Gen Bus 303 or equiv; MHR 305 or 705.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**M H R 612 – LABOR-MANAGEMENT RELATIONS**

3 credits.

Labor-management relations at the firm level including its evolution, characteristics and contemporary issues. Emphasis on analysis of the labor-management relationship through reference to theory and research on collective action, bargaining behavior and conflict resolution. Open to grad stdts

**Requisites:** Jr or Sr st; MHR 305 or 705.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**M H R 628 – NEGOTIATIONS**

3 credits.

Theory and practice of negotiations.

**Requisites:** Senior standing and MHR 300 or 704**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**M H R 700 – ORGANIZATIONAL BEHAVIOR**

3 credits.

Employee work attitudes and behaviors in organizations. Analysis of how individual, group and organizational characteristics influence employee attitudes, such as satisfaction and alienation, and employee behaviors, such as participation and performance. How managerial policies and practices such as reward systems and leadership influence work attitudes and behaviors.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**M H R 704 – MANAGING BEHAVIOR IN ORGANIZATIONS**

3 credits.

Examines the effective management of behavior in organizations. Focuses on the application of theories of leadership and work motivation. Includes critical conceptual and analytical assessment of these theories. Emphasizes the management of work performance, managerial skill building, and enabling followers.

**Requisites:** MBA degree stdts or permission**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**M H R 705 – HUMAN RESOURCE MANAGEMENT**

3 credits.

Two broad substantive areas are covered. (1) Evidence (theoretical and empirical) reviewed on the determinants of employee job attitudes and behavior. For example, the impact of compensation on employee satisfaction and performance. (2) Functional activities of personnel management and their impact on employee behavior evaluated. Sample topics: Selection, development, evaluation and compensation.

**Requisites:** Crse in intro stats**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**M H R 706 – LEADING AND WORKING IN TEAMS**

1 credit.

This course examines team dynamics, highlights key factors that influence team effectiveness, develops skills in diagnosing opportunities and threats that face teams, and enhances teamwork expertise.

The content is applicable to projects across specializations. For instance, teamwork skills are essential to project teams developing new products/services, working on business strategy, implementing process improvements, designing new financial investment instruments, and developing real estate. In any of these projects, employees would work as a team to accomplish their goals. The team's success or failure will depend, to a large extent, on how the team members work together.

**Requisites:** Declared in MBA program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**M H R/ENVIR ST 710 – CHALLENGES & SOLUTIONS IN BUSINESS SUSTAINABILITY**

3 credits.

This course provides students with central knowledge and skills to tackle challenges at the intersection of business and sustainability. Students will study the failures in market and decision making systems that lead to sustainability challenges, and learn how to address these challenges on the policy, organizational, and individual level.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**M H R 715 – STRATEGIC MANAGEMENT OF INNOVATION**

3 credits.

Helps student gain tools, concepts and information about how to generate value from Innovation and technology in existing organizations.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**M H R 722 – ENTREPRENEURIAL MANAGEMENT**

3 credits.

Describes activities and skills necessary to start and manage an enterprise. Includes decisions about domain, purchase versus start-up, preferred market, financing, legal form, staffing, organization structure, location, and legal requirements. Describes the entrepreneurial role in business initiation.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**M H R 723 – BUSINESS STRATEGY**

3 credits.

Integrative approach to strategic management, including strategy formulation/implementation at business unit, corporate levels. Cases, discussion, lecture, simulation are used to communicate concepts. Emphasizes development of unique tools for analysis of companies and industries, application of knowledge to business problems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**M H R 727 – ENTREPRENEURIAL GROWTH STRATEGIES**

3 credits.

Describes activities and skills necessary to initiate and manage rapid growth in small young firms.

**Requisites:** MHR 722, Acct I S 700 Grad st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2010**M H R 728 – BARGAINING, NEGOTIATING AND DISPUTE SETTLEMENT FOR MANAGERS**

3 credits.

Designed to improve student knowledge of the bargaining process and their negotiating skills. Students will learn about different bargaining theories and have the opportunity to apply these theories in exercises and role-playing cases.

**Requisites:** MBA standing or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**M H R/I SY E 729 – BEHAVIORAL ANALYSIS OF MANAGEMENT DECISION MAKING**

3 credits.

Examination of behavioral science literature dealing with the processes by which individuals, small groups and organizations make decisions. Understanding decision-making behavior in order to improve managerial performance; modeling decision-making processes for systems design and theory building purposes.

**Requisites:** Intro course in mgmt processes intermediate course in stat**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**M H R 734 – VENTURE CREATION**

3 credits.

Intended for students who seek to transform their own ideas into new ventures. Students will learn the process of evaluating, formalizing, and communicating a new venture idea. Student originated product/service/venture concept required for course.

**Requisites:** Grad stdt**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**M H R 737 – WAVE PRACTICUM I**

3 credits.

Students develop and present comprehensive analyses of local entrepreneurial firms' overall operations and their industry environments. The class meets in a seminar format to discuss assigned readings and student research, and also incorporates presentations by various subject matter experts.

**Requisites:** MHR 722, MHR 727 (may be con reg), cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2010**M H R 738 – WEINERT APPLIED VENTURES IN ENTREPRENEURSHIP (WAVE)**

3 credits.

Students develop and present comprehensive business and financing plans for a start-up firm. Investment recommendations are made to the WAVE Board. Class meets in a seminar format with various subject matter experts.

**Requisites:** MHR 722 or MHR 734**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**M H R 741 – TECHNOLOGY ENTREPRENEURSHIP**

3 credits.

Designed for graduate students interested in learning about the fundamental issues related to starting and managing technology-based new ventures. Encourages students to consider how technology-based solutions can solve economic and socially oriented problems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**M H R 765 – CONTEMPORARY TOPICS**

1-4 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**M H R 773 – SEMINAR-ARTS ADMINISTRATION**

3 credits.

Examination and applied analysis of selected topics in administration of both visual and performing arts organizations; marketing and audience development, contracts and legal problems, fund development, program planning and evaluation, facilities management, business and government relations.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**M H R 774 – SEMINAR-ARTS ADMINISTRATION**

3 credits.

Continuation of MHR 773.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**M H R/E P D/GEN BUS 783 – LEADING TEAMS**

1 credit.

Students will gain the knowledge and skills to continuously enhance their own team performance and productivity as well as the teams they are involved with. They will also be in a much better position to lead teams effectively. This course will not apply toward fulfilling the MBA degree requirements.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**M H R/E P D/GEN BUS 785 – EFFECTIVE NEGOTIATION STRATEGIES**

1 credit.

This course aims at improving students' negotiating skills, doing so by providing a theoretical underpinning that will help them to understand the sources of effective and ineffective approaches to negotiations. This course will not apply toward fulfilling the MBA degree requirements.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**M H R 790 – MASTER'S RESEARCH AND THESIS**

1-6 credits.

Completion of master's thesis for MBA program.

**Requisites:** Grad st in Arts Administration MBA prog, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014



**M H R 799 – READING AND RESEARCH-MANAGEMENT**

1-6 credits.

Individual work suited to the needs of graduate students may be arranged both during regular sessions and the intersession periods.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**M H R 835 – RESEARCH METHODS IN MANAGEMENT I**

3 credits.

(First of a two-course sequence; may be taken as a single course.)

Review and critique of published research with focus on the improvement of method. Ethics, theory and research, generating testable theory, reliability, validity, operationalization, measurement and scaling, and surveys.

**Requisites:** MHR 700 Gen Bus 704 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2010**M H R 870 – SEMINAR-ADMINISTRATIVE POLICY**

3 credits.

Application of management processes and decision theory to the analysis of cases and critical incidents in management. Cases and incidents deal with both administrative or corporate strategy and with supervisory tactics.

**Requisites:** MHR 720**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**M H R 871 – SEMINAR-PERSONNEL MANAGEMENT**

3 credits.

Study and evaluation of merging issues in the field of personnel management. Extensive reading of appropriate literature together with analysis, reports and discussions.

**Requisites:** MHR 610, 611, 705**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**M H R 872 – SEMINAR IN ORGANIZATIONAL BEHAVIOR AND DESIGN**

3 credits.

Analysis and discussion of selected topics in organizational behavior and design.

**Requisites:** MHR 700 730**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**M H R 975 – DOCTORAL RESEARCH SEMINAR IN MANAGEMENT**

3 credits.

Seminar for Ph.D. candidates majoring in management and at or near the doctoral thesis stage. Focus: Assisting the student in working through the conceptualization and design of a thesis topic.

**Requisites:** PhD cand cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**M H R 976 – DOCTORAL RESEARCH SEMINAR IN MANAGEMENT**

2 credits.

Continuation of MHR 975.

**Requisites:** PhD cand cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**M H R 977 – EMERGING ENTREPRENEURSHIP THEORY AND RESEARCH**

3 credits.

This PhD seminar explores contemporary entrepreneurship theory and research topics; providing students an opportunity to probe and develop scholarly theories of entrepreneurial behavior and outcomes. The course will incorporate presentations by the instructor, students and invited speakers.

**Requisites:** PhD stdt cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**M H R 990 – MANAGEMENT INDEPENDENT RESEARCH PHD THESIS**

1-12 credits.

Individual work to complete dissertation requirement of Ph.D. program.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**M H R 999 – READING AND RESEARCH-MANAGEMENT AND HUMAN RESOURCES PHD**

1-6 credits.

Individual work suited to the needs of Ph.D. students may be arranged both during regular sessions and during the intersession periods.

**Requisites:** PhD st cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017

## MARKETING (MARKETNG)

### MARKETNG 300 – MARKETING MANAGEMENT

3 credits.

Planning and controlling the elements of the marketing program; marketing organization, product and service, packaging, pricing, promotion and physical distribution.

**Requisites:** Sophomore, Junior or Senior standing; ECON 101

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### MARKETNG 305 – CONSUMER BEHAVIOR

3 credits.

Analysis of the theories of consumer behavior and their application to marketing decision-making. Psychological, economic, anthropological and sociological perspectives are integrated to enhance understanding of consumer acquisition processes. Stdts may not receive cr for both Marketing 305 Cnsr Sci 657

**Requisites:** So, Jr, or Sr st; Marketing 300.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### MARKETNG 310 – MARKETING RESEARCH

3 credits.

Systematic and objective search for and analysis of information relevant to the identification and solution of problems in marketing.

**Requisites:** So, Jr, or Sr st; Marketing 300; Gen Bus 303 or equiv

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### MARKETNG 335 – BRAND MANAGEMENT & STRATEGY

3 credits.

To provide an understanding of brands, how they work and to apply brand knowledge to managerial situations. Knowledge of brand history, societies and cultures that surround them, critical mental processes, marketing imperatives, and the economics that underlie them to understand brands.

**Requisites:** Sophomore, Junior or Senior standing; Marketing 300

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### MARKETNG 355 – MARKETING IN A DIGITAL AGE

3 credits.

This course prepares students with a foundational understanding of digital marketing channels and how successful marketing campaigns use the numerous online and mobile platforms. This course covers the fundamentals of digital marketing including internet marketing strategies, user-generated content, search engine optimization, website design and management, inbound marketing, email marketing, social media campaigns, mobile apps, content strategy and paid search advertising.

**Requisites:** MARKETNG 300 and sophomore standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### MARKETNG 365 – CONTEMPORARY TOPICS

1-3 credits.

A course for the exploration of subject areas possibly to be introduced into the business curriculum.

**Requisites:** So, Jr, or Sr st; Marketing 300

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### MARKETNG 399 – READING AND RESEARCH-MARKETING

1-6 credits.

**Requisites:** So, Jr, or Sr st; Marketing 300

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### MARKETNG 415 – MARKETING COMMUNICATIONS

3 credits.

Decision making in the management of communications between the firm and the public. Communications theories, advertising and promotional management. An evaluation of the promotional mix, i.e. personal selling, advertising media, packaging, sales promotion and publicity.

**Requisites:** Sophomore, Junior, or Senior standing; Marketing 300

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### MARKETNG/INTL BUS 420 – GLOBAL MARKETING STRATEGY

3 credits.

Structure of foreign trading; commercial facilities available to exporters and importers; application of economic analysis in marketing decisions; contemporary trends in international economy affecting foreign trade policies and practices.

**Requisites:** Sophomore, Junior or Senior standing; Marketing 300

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### MARKETNG/OTM 421 – FUDAMENTALS OF SUPPLY CHAIN MANAGEMENT

3 credits.

Supply chain management is a cross-functional discipline concerned with the movement of products, services, and information among all links in the value chain. The management of supply chain resources is a way to reduce costs and achieve competitive advantage.

**Requisites:** So, Jr, or Sr st; Marketing 300

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### MARKETNG/OTM 422 – LOGISTICS MANAGEMENT

3 credits.

Provides a management perspective on the fundamental activities, concepts, and current practices in logistics. Transportation management, order fulfillment, warehousing, global logistics, key performance indicators, outsourcing, and introduction to radio frequency identification and barcoding. Use of case studies and industry speakers.

**Requisites:** OTM 300 or equiv, Marketing 300 or equiv

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MARKETNG 423 – PROCUREMENT & SUPPLY MANAGEMENT**

3 credits.

Procurement and supply management is the business function concerned with an organization's acquisition of required materials, services, and equipment. The course covers the purchasing function's responsibilities and the necessary knowledge to develop effective sourcing strategies.

**Requisites:** So, Jr, or Sr st; Marketing 300**Repeatable for Credit:** No**Last Taught:** Fall 2017**MARKETNG 425 – MARKETING CHANNELS**

3 credits.

The structure and behavior of marketing channels from a managerial frame of reference. Strong emphasis on understanding marketing institutions and agencies and on dissecting behavioral aspects of channel relations—roles of members, use of power, and resolution of conflicts.

**Requisites:** Sophomore, Junior, or Senior standing; Marketing 300**Repeatable for Credit:** No**Last Taught:** Fall 2017**MARKETNG 427 – ENTERPRISE SYSTEMS AND SUPPLY CHAIN MANAGEMENT**

3 credits.

Provides an overview of enterprise systems and supply chain business processes. Introduces students to how enterprise systems are used to manage supply chains and make effective business decisions. Students will use SAP enterprise resource planning software throughout the course. Not open to graduate students

**Requisites:** Sophomore standing, MARKETING 300 and OTM 300.**Repeatable for Credit:** No**Last Taught:** Spring 2017**MARKETNG 430 – STRATEGIC PRICING**

3 credits.

Pricing is one of the most important but least understood of marketing decisions. This course aims to equip you with key concepts and techniques for evaluating and formulating pricing strategies. We will use a combination of analytical and experiential learning methods to accomplish this objective.

**Requisites:** MARKETING 300 and sophomore standing**Repeatable for Credit:** No**MARKETNG 440 – EMERGING ISSUES IN NEW PRODUCT DEVELOPMENT**

3 credits.

The goal of this course is to examine emerging issues in new product development (NPD) such as customer co-creation, R D alliances, and outsourcing of innovation.

**Requisites:** Sophomore, Junior or Senior standing; Marketing 300**Repeatable for Credit:** No**Last Taught:** Fall 2011**MARKETNG 450 – MARKETING ANALYTICS**

3 credits.

In this course we will study the impact of analytics on successful marketing decisions. The course covers a spectrum of topics that include marketing metrics, digital analytics, marketing response models, segmentation, product design, experimentation and big data. It is designed for students with some background in quantitative methods and an exposure to basic marketing research concepts. The course will use a combination of lectures, cases and hands-on model building focused on marketing analytics. Not open to graduate students.

**Requisites:** Sophomore standing, MARKETING 300 and MARKETING 310.**Repeatable for Credit:** No**MARKETNG 460 – MARKETING STRATEGY**

3 credits.

Capstone marketing decision-making course emphasizing analysis of the external environment. The coordination of tactical and strategic marketing plans with the goals and objectives of the firm. Prior completion of 2 Marketing crses beyond Marketing 300

**Requisites:** Sr st; Marketing 300.**Repeatable for Credit:** No**Last Taught:** Fall 2017**MARKETNG 635 – SALES MANAGEMENT**

3 credits.

Determination of the amount and allocation of personal sales effort to be applied to the market and methods of organizing, evaluating and controlling this effort. A critical evaluation of current practice in sales planning, analysis and cost control.

**Requisites:** So, Jr, or Sr st; Marketing 300**Repeatable for Credit:** No**Last Taught:** Fall 2016**MARKETNG 640 – STRATEGIC RETAILING**

3 credits.

This course provides an overview of the different types of retailers and the channels they use, the retailing environment, the functions retailers perform, the decision-making processes of consumers with respect to retailers and their offerings, and various issues in retailing strategy, merchandise management and store management.

**Requisites:** Sophomore standing**Repeatable for Credit:** No**Last Taught:** Fall 2017**MARKETNG 700 – MARKETING MANAGEMENT**

3 credits.

Provides a framework for evaluating marketing problems and developing a marketing strategy. Customer, company, competitive, and collaborator factors are emphasized as foundations for marketing decision making. The key aspects of product, pricing, distribution, and promotion strategy are also examined.

**Requisites:** Grad standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**MARKETNG 705 – CONSUMER BEHAVIOR**

3 credits.

Analysis of theories and models of behavior which underlie the process of consumer decision-making. Marketing applications of psychological, sociological and social-psychological factors.

**Requisites:** Marketing 700 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**MARKETNG 710 – MARKETING RESEARCH**

3 credits.

An overview of the marketing research process from a methodological perspective. Topics: Research design, data collection procedures, sampling and data analysis.

**Requisites:** Marketing 700 or equiv Gen Bus 303 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MARKETNG 715 – MARKETING COMMUNICATIONS**

3 credits.

Decision-making in the management of promotions. An evaluation of promotional mix, communications theories, advertising and promotional management and strategy development.

**Requisites:** Marketing 700 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MARKETNG/OTM 722 – LOGISTICS MANAGEMENT**

3 credits.

This course provides a foundation in transportation, order fulfillment, warehousing, materials planning including MRP, demand planning, import/export fundamentals, SAP/ERP systems, supply chain metrics, and leading supply chain technologies such as RFID.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MARKETNG 724 – STRATEGIC GLOBAL SOURCING**

3 credits.

Course focuses on the planning, preparation, negotiation, and implementation activities required for firms to succeed in sourcing globally. It includes essential theoretical, economic, and geopolitical aspects of global sourcing with the steps of a properly developed and executed sourcing strategy.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MARKETNG 725 – MARKETING CHANNELS**

3 credits.

Marketing channels analyzed as social, economic and political systems. Strong emphasis on understanding and dissecting behavioral dimensions of channel relations—roles of channel members, use of power, conflicts that arise among them, and their communication networks.

**Requisites:** Marketing 700 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**MARKETNG 726 – SEMINAR IN SUPPLY CHAIN MANAGEMENT**

3 credits.

Supply chain management is a cross-functional discipline that involves the integration of business processes among supply chain partners ranging from end users through original suppliers that provide products, services and information that add value for customers.

**Requisites:** Marketing 700 OIM 750 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MARKETNG 727 – ENTERPRISE SYSTEMS AND SUPPLY CHAIN MANAGEMENT**

3 credits.

Provides an overview of enterprise systems and supply chain business processes. Introduces students to how enterprise systems are used to manage supply chains and make effective business decisions. Students will use SAP enterprise resource planning software throughout the course.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MARKETNG 735 – BRAND STRATEGY**

3 credits.

Provides students a comprehensive and up-to-date treatment of the subjects of brand, brand equity, and strategic brand management. It examines the concepts and techniques to improve the long-term performance of brand strategies.

**Requisites:** Grad st Marketing 700**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**MARKETNG 737 – CREATING BREAKTHROUGH NEW PRODUCTS**

3 credits.

In this course, students will implement a Stage-Gate approach to generate and evaluate new product ideas. Throughout the semester students will use both qualitative and quantitative research techniques to develop and test product concepts, create prototypes, and assess market viability.

**Requisites:** MARKETING 700**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MARKETNG 740 – EMERGING ISSUES IN NEW PRODUCT DEVELOPMENT**

3 credits.

The goal of this course is to examine emerging issues in new product development (NPD) such as customer co-creation, R D alliances, and outsourcing of information.

**Requisites:** Marketing 700**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2009**MARKETNG 755 – MARKETING IN A DIGITAL AGE**

3 credits.

This course prepares students with a foundational understanding of digital marketing channels and how successful marketing campaigns use the numerous online and mobile platforms. This course covers the fundamentals of digital marketing including internet marketing strategies, user-generated content, search engine optimization, website design and management, inbound marketing, email marketing, social media campaigns, mobile apps, content strategy and paid search advertising.

**Requisites:** MARKETING 700**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MARKETNG 765 – CONTEMPORARY TOPICS**

1-4 credits.

**Requisites:** Grad st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MARKETNG/E P D/GEN BUS 782 – MARKETING FOR NON-MARKETING PROFESSIONALS**

1 credit.

An overview of marketing's role within an organization, the key elements of a marketing plan, and how the plan is implemented. Students will learn about buyer demographic, psychographic and purchasing decision behavior. A thorough understanding of the customer enables students to develop a coordinated marketing mix (product, price promotion and place) that will satisfy the customer better than the competition and at the required margin. Students will leave the course understanding the degree to which all company functions must be coordinated and focused on the customer. This course will not apply toward fulfilling the MBA degree requirements.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**MARKETNG 799 – READING AND RESEARCH-MARKETING**

1-6 credits.

Individual work suited to the needs of graduate students may be arranged both during regular sessions and the inter-session periods.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MARKETNG 805 – QUALITATIVELY-BASED MARKETING INSIGHTS**

3 credits.

Understanding and application of in-depth qualitative market research methods, with an emphasis on the interpretation of qualitative data. Provides hands-on experience with different methodological techniques and immersion in a cultural perspective for systematically analyzing data from a marketing perspective.

**Requisites:** Marketing 700 710**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MARKETNG 815 – MARKETING ANALYTICS**

3 credits.

In this course we will study the impact of analytics on successful marketing decisions. The course covers a spectrum of topics that include Marketing Metrics, Digital Analytics, Marketing Response Models, Segmentation, Product Design, Experimentation and Big Data. It is particularly useful to students planning careers in marketing analytics, product management and consulting. It is designed for students with some background in quantitative methods and an exposure to basic marketing research concepts.

**Requisites:** GEN BUS 700 and MARKETING 710 required**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017



**MARKETNG 971 – SEMINAR-MARKETING PHD**

3 credits.

Analysis and discussion of recent research in all aspects of marketing thought and practice.

**Requisites:** Grad st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MARKETNG 972 – SEMINAR-MARKETING PHD**

3 credits.

Continuation of Marketing 971.

**Requisites:** PhD cand cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MARKETNG 990 – MARKETING INDEPENDENT RESEARCH PHD THESIS**

1-12 credits.

Individual work to complete dissertation requirement of Ph.D. program.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MARKETNG 999 – READING AND RESEARCH-MARKETING PHD**

1-6 credits.

Individual work suited to the needs of Ph.D. students may be arranged both during regular sessions and during the intersession periods.

**Requisites:** PhD st cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## MATERIALS SCIENCE AND ENGINEERING (M S & E)

**M S & E 1 – COOPERATIVE EDUCATION PROGRAM**

1 credit.

Work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career.

**Requisites:** So st**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**M S & E 150 – MATERIALS SCIENCE FOR NON-ENGINEERS**

3 credits.

A non-mathematical treatment of the structure and resulting properties of metals, plastics, ceramics, glasses and composite materials. The interaction between materials and the environment, heat, mechanical forces, light, electric and magnetic fields. Open to Freshmen

**Requisites:** HS chem or physics.**Repeatable for Credit:** No**Last Taught:** Fall 1998**M S & E 250 – INTRODUCTION TO MODERN MATERIALS**

1 credit.

This course is designed to provide incoming students with an overview of the structure of materials and the relation to properties. Special emphasis is placed on modern materials and recent advancements in their application.

**Requisites:** Open to Fr or stdts who have not declared a major**Repeatable for Credit:** No**Last Taught:** Fall 2015**M S & E 299 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**M S & E 330 – THERMODYNAMICS OF MATERIALS**

4 credits.

Introduction to thermodynamics of materials, equilibrium constants, solutions, heterogeneous equilibria and electrochemistry.

**Requisites:** CHEM 104 MATH 222**Repeatable for Credit:** No**Last Taught:** Fall 2017**M S & E 331 – TRANSPORT PHENOMENA IN MATERIALS**

3 credits.

Basic principles of fluid flow, heat transfer and diffusion are introduced. Examples relevant to design and processing of materials including metals, semiconductors, glasses, polymers, and ceramics are given.

**Requisites:** MSE 330**Repeatable for Credit:** No**Last Taught:** Spring 2017**M S & E 332 – MACROPROCESSING OF MATERIALS**

3 credits.

Topics include: ironmaking and steelmaking; production of Cu, Zn, Al and Mg by electrolysis; solidification processing of alloys by ingot casting, continuous casting and directional solidification; growth of bulk single crystals of semiconductors and ceramics from melts.

**Requisites:** MSE 330**Repeatable for Credit:** No**Last Taught:** Fall 2017



**M S & E 333 – MICROPROCESSING OF MATERIALS**

3 credits.

Integration of materials science theory and materials engineering practice as applied to the processing of materials at the microscopic level.

**Requisites:** MSE 332 or cons inst**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**M S & E 350 – INTRODUCTION TO MATERIALS SCIENCE**

3 credits.

Basic structure and resulting properties, phase equilibria, metastability, rate and growth processes in solids.

**Requisites:** CHEM 103 or equivalent or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**M S & E 351 – MATERIALS SCIENCE-STRUCTURE AND PROPERTY RELATIONS IN SOLIDS**

3 credits.

Introduction to: atomic, electronic, and defect structures in materials; diffusional, mechanical and electrical properties of materials; and the role of structure and defects in diffusional, mechanical, and electrical properties.

**Requisites:** CHEM 104 or equivalent**Repeatable for Credit:** No**Last Taught:** Fall 2017**M S & E 352 – MATERIALS SCIENCE-TRANSFORMATION OF SOLIDS**

3 credits.

The basic factors that determine phase equilibria, structural and transformation characteristics of solids. Principles governing the thermodynamics and kinetics of phase transformations and microstructure evolution. Nucleation and growth processes in precipitation, recrystallization, solidification, oxidation, martensitic, ordering and spinodal reactions. Transformation behavior in polymers, biomaterials and nanomaterials.

**Requisites:** MSE 350, or 351 or consent of instructor**Repeatable for Credit:** No**Last Taught:** Spring 2017**M S & E 360 – MATERIALS LABORATORY I**

1 credit.

Laboratory instruction in sample preparation for and applications of quantitative microscopy, x-ray diffraction, and properties measurement in the context of structure-property relationships in materials.

**Requisites:** MSE 350, 351, or CBE 440 or concurrent registration**Repeatable for Credit:** No**Last Taught:** Fall 2017**M S & E 361 – MATERIALS LABORATORY II**

2 credits.

Experimental principles of materials science. Thermal, kinetic, structural, and materials synthesis experiments and associated concepts, data analysis, and presentation.

**Requisites:** MSE 351 or concurrent registration MSE 360 or equivalent**Repeatable for Credit:** No**Last Taught:** Spring 2017**M S & E 362 – MATERIALS LABORATORY III**

2 credits.

Experiments in the mechanical and electronic properties of matter in bulk and thin films; computer instrument control; and data analysis.

**Requisites:** MSE 352 or concurrent registration MSE 361**Repeatable for Credit:** No**Last Taught:** Fall 2017**M S & E 363 – BASIC MATERIALS CHARACTERIZATION TECHNIQUES**

2 credits.

The purpose of this course is to familiarize students with a variety of modern characterization techniques. Three general subject areas are covered: Physical Properties: Thermogravimetric analysis (TGA); differential scanning calorimetry (DSC); dynamic mechanical analysis (DMA); gel permeation chromatography (GPC). Spectroscopy, optical and x-ray: Ultraviolet/visible (UV/VIS), molecular-infrared/Raman, Rheology; x-ray crystal and powder diffraction. Microscopy: scanning electron microscopy (SEM); SEM and energy dispersive analysis (EDS).

**Requisites:** M S & E 350 and M S & E 351**Repeatable for Credit:** No**M S & E 401 – SPECIAL TOPICS IN MATERIALS SCIENCE AND ENGINEERING**

1-3 credits.

Special topics of interest to students in materials science and engineering.

**Requisites:** So st**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**M S & E/CHEM 421 – POLYMERIC MATERIALS**

3 credits.

Polymer chemistry and physics terminologies, structure-property relationship, polymer characterization, polymer synthesis, material requirements for optoelectronics including conjugated polymers, thin film transistors, light emitting diodes, non-linear optical materials, holographic data storage and liquid crystal polymers.

**Requisites:** CHEM 341 or equiv**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**M S & E/N E 423 – NUCLEAR ENGINEERING MATERIALS**

3 credits.

Fundamentals of fuel and cladding behavior in terms of thermal properties, chemical behavior and radiation damage.

**Requisites:** MSE 350 or 351**Repeatable for Credit:** No**Last Taught:** Fall 2016

**M S & E/N E 433 – PRINCIPLES OF CORROSION**

3 credits.

Thermodynamics and kinetics of metallic corrosion. The common forms of corrosion and corrosion susceptibility tests. Electrochemical measurement of corrosion rates. Corrosion prevention, economic considerations. High temperature oxidation and sulphidation. Corrosion case histories.

**Requisites:** MSE 330 or equiv**Repeatable for Credit:** No**Last Taught:** Spring 2016**M S & E 434 – INTRODUCTION TO THIN-FILM DEPOSITION PROCESSES**

3 credits.

Introduction to major thin-film deposition techniques and properties of thin films. Evaporation, plasma assisted processes with emphasis on sputter deposition, chemical vapor deposition ion beams. Film properties and characterization methods, applications.

**Requisites:** MSE 330 and 351, or equiv**Repeatable for Credit:** No**Last Taught:** Fall 2017**M S & E/M E 435 – JOINING OF MATERIALS: STRUCTURAL, ELECTRONIC, BIO AND NANO MATERIALS**

3 credits.

Structural (metallic, ceramic, plastic, composite): welding, soldering, brazing, diffusion bonding, adhesive bonding. Electronic: wave and relay soldering; wire, flip-chip and wafer bonding. Bio: hip and knee implants; dental restorations and implants; medical devices. Nano: nano tubes, wires, fibers and composites.

**Requisites:** MSE 350 or 351 or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2011**M S & E 441 – DEFORMATION OF SOLIDS**

3 credits.

Elastic and plastic deformation of real solids. Dislocation theory with applications to metals and alloys. Fracture, fatigue, brittle failure and methods for measuring the mechanical properties of materials.

**Requisites:** EMA 214 or concurrent registration or consent of instructor, MSE 352 or concurrent registration**Repeatable for Credit:** No**Last Taught:** Fall 2017**M S & E 445 – MULTICOMPONENT PHASE EQUILIBRIA**

3 credits.

Applications of the phase rule to metallurgical and mineralogical reactions.

**Requisites:** Sr st**Repeatable for Credit:** No**Last Taught:** Spring 2005**M S & E 448 – CRYSTALLOGRAPHY AND X-RAY DIFFRACTION**

3 credits.

Crystal symmetry, projection methods, X-ray studies of structural problems in the solid state.

**Requisites:** Consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**M S & E 451 – INTRODUCTION TO CERAMIC MATERIALS**

3 credits.

Primary objectives are to: 1) analyze how atoms and ions combine to form 3D crystals and glasses; 2) examine phase equilibria to understand the driving forces for the formation of particular ceramic phases; 3) introduce and discuss the nature of defects in ceramics; 4) discuss the migration of matter and of charge in ceramics; and 5) discuss properties and processing technologies of ceramics.

**Requisites:** MSE 330 352**Repeatable for Credit:** No**Last Taught:** Fall 2017**M S & E 456 – ELECTRONIC, OPTICAL, AND MAGNETIC PROPERTIES OF MATERIALS**

3 credits.

Quantitative description of electronic, optical, and magnetic structure-property relationships of materials. Strategies for the development of new materials and introduction to applications of these materials.

**Requisites:** M S & E 333, M S & E 352, and (PHYSICS 202, 208 or 248)**Repeatable for Credit:** No**Last Taught:** Fall 2017**M S & E 461 – ADVANCED METAL CASTING**

3 credits.

Metallurgical and engineering principles applied in the foundry and related industries, primarily for those interested in foundry engineering.

**Requisites:** ME 311 or MSE 370**Repeatable for Credit:** No**Last Taught:** Fall 2017**M S & E/M E 462 – WELDING METALLURGY**

3 credits.

Metallurgical principles applied to welding; mechanisms of strengthening, phase equilibria, and microstructure of the weld zone. Modern processes including laser and electron beam welding.

**Requisites:** MSE 370 or ME 313 and MSE 350 or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2017**M S & E 463 – MATERIALS FOR ELEVATED TEMPERATURE SERVICE**

3 credits.

The design, properties, processing and selection of high temperature materials for structural applications. The fundamentals of diffusion, phase transformations, dislocation motion and oxidation governing the high temperature mechanical properties and structural performance of metallic and ceramic materials.

**Requisites:** Consent of instructor or senior standing**Repeatable for Credit:** No**Last Taught:** Fall 2015**M S & E 465 – FUNDAMENTALS OF HEAT TREATMENT**

3 credits.

Principles of phase transformations, heat transfer and mechanical properties as applied to heat treatment practice. The design, modeling and analysis of heat treatment processes.

**Requisites:** Senior standing**Repeatable for Credit:** No**Last Taught:** Fall 2006

**M S & E 470 – CAPSTONE PROJECT I**

1 credit.

Capstone experiences in materials design, selection, and application for MSE students. Emphasis on creativity and application of fundamental principles of public identification, experimental design, data acquisition and analysis, and presentation of results.

**Requisites:** MSE 331, MSE 352 and MSE 362

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**M S & E 471 – CAPSTONE PROJECT II**

3 credits.

Capstone experiences in materials design, selection and application for MSE students. Emphasis on creativity and application of fundamental principles in problem identification, experimental design, data acquisition and analysis, and presentation of results.

**Requisites:** Materials Science and Engineering 470 is required.

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**M S & E/G L E/GEOSCI 474 – ROCK MECHANICS**

3 credits.

Classification of rock masses, stress and strain in rock, elastic and time-dependent behavior of rock, state of stress in rock masses, failure mechanisms, lab testing, geological and engineering applications.

**Requisites:** EMA 201 or 214, 304, or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**M S & E/G L E/GEOSCI 475 – ROCK MECHANICS APPLICATIONS TO ENVIRONMENTAL PROBLEMS**

3 credits.

Classification of rock for specific engineering purposes, in situ testing, applications to surface mining and slope stability, applications to underground mining and excavations, applications to waste disposal and underground storage, applications to novel methods of in situ mining, applications to earthquakes.

**Requisites:** MSE 474 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2007

**M S & E 521 – ADVANCED POLYMERIC MATERIALS**

3 credits.

This course is directed at graduate and advanced undergraduates with focused interest in polymeric materials. Basic principles of compatibility between macromolecules and small molecules, physical chemistry of blends and concepts in phase separation, and selected topics on materials design using self-assembly concepts.

**Requisites:** M S E/CHEM/M S & E 421

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**M S & E 530 – THERMODYNAMICS OF SOLIDS**

3 credits.

Thermodynamics of condensed matters as applied to materials science and engineering.

**Requisites:** MSE 330 or equiv

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**M S & E/E M A 541 – HETEROGENEOUS AND MULTIPHASE MATERIALS**

3 credits.

Principles of the mechanics of solid multiphase systems. Role of heterogeneity and anisotropy in determining physical properties including elastic, dielectric and piezoelectric properties. Applications in lightweight structures, ultrastrong materials, materials for protection of the body, and materials for the replacement of human tissues. Materials with fibrous, lamellar, particular, and cellular structures. Heterogeneous materials of biological origin. Biomimetic and bio-inspired materials.

**Requisites:** EMA 303 or ME 306 or MSE 441 or equivalent

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**M S & E/CBE/E C E 544 – PROCESSING OF ELECTRONIC MATERIALS**

3 credits.

Physics and chemistry principles underlying microelectronic materials processing. Effects of processing on materials and structures important in microelectronic and opto-electronic devices.

**Requisites:** CBE 440 or MSE 351 or ECE 335; or cons inst

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2009

**M S & E 551 – STRUCTURE OF MATERIALS**

3 credits.

Atomic, nanoscale and microscale structure of materials. Course is designed for first year graduate students with interests in materials research.

**Requisites:** Graduate standing or M S & E 351 and M S & E 451

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**M S & E 553 – NANOMATERIALS & NANOTECHNOLOGY**

3 credits.

The principal objectives of the course are to: i) introduce advanced processing methods for synthesizing nanomaterials, ranging from single nanoparticles to three-dimensional nanostructures, ii) discuss important thermodynamic and kinetic theories related to such processing, iii) describe methods for characterizing the structure and properties of nanomaterials, iv) discuss current and emerging applications for nanomaterials, and v) illustrate the interdisciplinary nature of nanotechnology and address critical challenges.

**Requisites:** Senior or graduate student status in a physical sciences program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**M S & E 560 – FUNDAMENTALS OF ATOMISTIC MODELING**

3 credits.

Introduction to basic concepts of atomistic modeling in materials, including classical and quantum mechanical energy methods, energy optimization, molecular statistics, molecular dynamics, and Monte Carlo. Relevant aspects of thermodynamics, statistical mechanics, quantum mechanics, and computer programming will also be presented.

**Requisites:** Sr st or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**M S & E 570 – PROPERTIES OF SOLID SURFACES**

3 credits.

Introduction to structure and electronic properties; surface energy; thermodynamics of surfaces; diffusion. Surface barriers, work function, vibrational and electronic states. Chemical interactions: chemisorption, oxidation, corrosion, absorption kinetics, catalysis. Experimental methods and applications in metals, semiconductors.

**Requisites:** Cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**M S & E 699 – INDEPENDENT STUDY**

1-4 credits.

Courses in Metallurgical Engineering.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**M S & E 702 – GRADUATE COOPERATIVE EDUCATION PROGRAM**

1-2 credits.

Work experience that combines classroom theory with practical knowledge of operations to provide students with a background on which to develop and enhance a professional career. The work experience is tailored for MS students from within the U.S. as well as eligible international students.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2016

**M S & E/G L E 705 – ADVANCED ROCK MECHANICS**

3 credits.

Elastic, viscoelastic and plastic behavior of rock, crack phenomena and mechanisms of rock fracture, finite element solutions, dynamic rock mechanics, engineering and geological applications.

**Requisites:** MSE 474, 475, or equiv, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2004

**M S & E 748 – STRUCTURAL ANALYSIS OF MATERIALS**

3 credits.

Introduction to transmission electron microscopy of materials, including imaging, diffraction, and microanalysis.

**Requisites:** MSE 448

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**M S & E 750 – IMPERFECTIONS AND MECHANICAL PROPERTIES**

3 credits.

Mathematical theory of dislocations and other crystal imperfections; mechanical properties of crystals in relation to imperfections.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**M S & E 751 – ADVANCED MATERIALS SCIENCE: DIFFUSION AND REACTIONS**

3 credits.

Selected topics in materials science and engineering such as phase stability, diffusion and kinetic processes in metals, semi-conductors and ceramics.

**Requisites:** MSE 352 or equiv

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 1991

**M S & E 752 – ADVANCED MATERIALS SCIENCE: PHASE TRANSFORMATIONS**

3 credits.

Phase transformations, nucleation theory and the role of structural imperfections, alloy phase equilibria, interface reactions and growth kinetics, continuous transformations.

**Requisites:** MSE 352 and 530 or equivalent

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**M S & E 756 – STRUCTURE AND PROPERTIES OF ADVANCED ELECTRONIC MATERIALS**

3 credits.

Prepares graduate students for research in electronic materials and related areas by examining (1) how does the physical structure of a material affect its electronic structure and properties: and (2) state-of-the-art advance electronic materials. Topics include: molecular and organic semiconductors; carbon nanomaterials (nanotubes, nanoribbons and graphene); advances in conventional bulk zinc-blende and wurtzite semiconductors; polycrystalline, amorphous, and disordered materials; state-of-the-art high- low-k dielectrics; and up-and-coming and next-generation materials.

**Requisites:** PHYSICS 551 or MSE 456 or equivalent

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**M S & E 758 – TRANSMISSION ELECTRON MICROSCOPY LABORATORY**

1 credit.

An introduction to the practice of transmission electron microscopy (TEM) and TEM sample preparation through hands-on laboratory training.

**Requisites:** MSE 748 or con reg cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**M S & E 760 – MOLECULAR DYNAMICS AND MONTE CARLO SIMULATIONS IN MATERIALS SCIENCE**

3 credits.

Students will learn algorithms and develop codes for molecular dynamics (MD) and Monte Carlo (MC) simulations of materials. Techniques for parallel programming (MPI) will be introduced and practiced. Advanced techniques based on MD and MC will be presented.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**M S & E 790 – MASTER'S RESEARCH OR THESIS**

1-9 credits.

**Requisites:** Grad st, for Master's candidates only

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**M S & E 803 – SPECIAL TOPICS IN MATERIALS SCIENCE**

1-3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**M S & E 890 – PRE-DISSERTATOR'S RESEARCH**

1-9 credits.

**Requisites:** Grad st, for post-master's, pre-dissertator stdts only

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**M S & E 900 – MATERIALS RESEARCH SEMINAR**

1 credit.

Introduces graduate students to the breadth, wealth and practices of materials research at the University of Wisconsin and in the professional materials research community.

**Requisites:** Intended for, but not limited to, 1st yr grad stdts

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**M S & E 990 – RESEARCH AND THESIS**

1-9 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**M S & E 999 – INDEPENDENT WORK**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2000



## MATHEMATICS (MATH)

### MATH 95 – FUNDAMENTAL MATHEMATICAL SKILLS

3 credits.

Covers the fundamental mathematics necessary both as survival skills in daily life and as tool for success in college. Includes arithmetic procedures and their applications. Intended for students fulfilling the remediation requirements in mathematics. Open to Fr

**Requisites:** Remedial status as determined by the University; does not count for degree credit.

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

### MATH 96 – PREPARATORY ALGEBRA

3 credits.

Covers the necessary mathematical tools needed to succeed in our algebra course and provides fundamental mathematical skills. Topics include real numbers, linear equations and inequalities, integral and fractional exponents, polynomials and their arithmetic, polynomial equations and equations with fractional exponents, the quadratic formula and completing the square, systems of two linear equations, graphing, and problem solving using algebra and graphs. All students must pass an assessment on basic mathematical skills to complete the course. The course does not count for degree credit. Department consent required to drop/swap from course

**Requisites:** Placement in MATH 096.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### MATH 112 – ALGEBRA

3 credits.

Polynomial equations, remainder and factor theorems, functions, graphs of functions, simultaneous linear equations, logarithm and exponential functions, sequences and series, mathematical induction, binomial theorem. MATH 118 does not fulfill the prerequisite

**Requisites:** MATH 096 or placement into MATH 112.

**Course Designation:** Gen Ed - Quantitative Reasoning Part A Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### MATH 113 – TRIGONOMETRY

3 credits.

This course covers the graphs, properties and geometric significance of trigonometric functions of a real variable. Other topics include trigonometric equations and identities, application, trigonometric form of complex numbers, DeMoivre's theorem, and polar and parametric equations. The course also has a significant number of applications, especially related to other disciplines.

**Requisites:** MATH 112 or placement into MATH 113

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### MATH 114 – ALGEBRA AND TRIGONOMETRY

5 credits.

Covers MATH 112 and MATH 113. Not recommended for students with less than an AB in Math 101. MATH 118 does not fulfill the prerequisite

**Requisites:** MATH 096 or placement into MATH 114 or 171.

**Course Designation:** Gen Ed - Quantitative Reasoning Part A Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### MATH 118 – SUMMER COLLEGIATE EXPERIENCE MATHEMATICS COURSE

2 credits.

A preparation and introductory math course for students enrolled in the Summer Collegiate Experience program. The course will include material from precalculus and calculus and related topics depending on students' results on the math placement exam. Open to Freshmen only

**Requisites:** Student must be enrolled in the Summer Collegiate experience program and have consent of the math SCE coordinator.

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

### MATH 130 – MATHEMATICS FOR TEACHING: NUMBERS AND OPERATIONS

3 credits.

Mathematics for teaching focusing on numbers and operations in K-8. Emphasis on understanding a variety of problem solving strategies and word problems. Content will focus on place value, models for the operations, standard and alternative algorithms, fractions, and decimals. MATH 118 does not fulfill the prerequisite

**Requisites:** MATH 096 or placement into MATH 112 and Elementary Education or Special Education classification.

**Course Designation:** Gen Ed - Quantitative Reasoning Part A Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### MATH 131 – MATHEMATICS FOR TEACHING: GEOMETRY AND MEASUREMENT

3 credits.

Mathematics for teaching focusing on geometry and measurement in K-8. Emphasis on understanding a variety of problem solving strategies and deductive reasoning. Content will focus on geometric shapes and their relationships, transformations, measurement, and the connection to numbers.

**Requisites:** Grade of C in MATH 130; and Elementary Education or Special Education classification

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**MATH 132 – PROBLEM SOLVING IN ALGEBRA, PROBABILITY AND STATISTICS**

3 credits.

Algebra, probability, and statistics for teachers of elementary school mathematics. Topics include proportions, relations, functions and their graphs, equally likely outcomes, expected value, and representation of data. The emphasis is on problem solving, modeling, and analysis of solution strategies. MATH 130 131 with a grade of C or better (or exemption from MATH 130 and/or 131). Open only to stdts in specific educ programs (PRE, PSR, EED, SPE) or by permission of Educ Acad Svcs

**Requisites:** Open to Freshmen.**Course Designation:** Gen Ed - Quantitative Reasoning Part B  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MATH 135 – ALGEBRAIC REASONING FOR TEACHING MATH**

3 credits.

Topics from high school/college algebra relevant to teaching mathematics in middle school, including linear and quadratic equations and inequalities, linear systems, concept of a function, exponential and polynomial functions, with an emphasis on problem solving and modeling.

**Requisites:** Grade of C in MATH 130, and (MATH 112, 114, or 171), and classified in Elementary Education or Special Education**Course Designation:** Gen Ed - Quantitative Reasoning Part B  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MATH 136 – PRE-CALCULUS AND CALCULUS FOR MIDDLE SCHOOL TEACHERS**

6 credits.

Course designed to develop future middle school mathematics teachers' knowledge of precalculus and calculus concepts and to make connections between these concepts and middle school mathematics.

**Requisites:** Grade of C MATH 135; and Elementary Education or Special Student classification**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MATH 138 – MATHEMATICS FOR TEACHING: CONJECTURE, GENERALIZATION, AND PROOF**

3 credits.

Explores the roles of conjecture, generalization, and proof in effective teaching of mathematics. Students explore mathematical reasoning as an iterative process of conjecturing, generalizing and investigating. Topics are drawn from counting, probability, statistics, arithmetic, algebra, and geometry.

**Requisites:** Grade of C in MATH 136; and Elementary Education classification**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MATH 141 – QUANTITATIVE REASONING AND PROBLEM SOLVING**

3 credits.

Quantitative reasoning for students who need to satisfy part A of the Quantitative Reasoning requirement and prepare for QR-B courses, but do not want to continue in the calculus sequence. MATH 118 does not fulfill the prerequisite

**Requisites:** MATH 096 or placement into MATH 141.**Course Designation:** Gen Ed - Quantitative Reasoning Part A  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MATH 171 – CALCULUS WITH ALGEBRA AND TRIGONOMETRY I**

5 credits.

Topics in algebra, trigonometry and precalculus are integrated with elementary differential calculus. Part of a 2-semester sequence with MATH 217; these two courses together are equivalent to MATH 114 and 221. Not recommended for students with less than an AB in Math 101. MATH 118 does not fulfill the prerequisite

**Requisites:** MATH 096 or placement into MATH 114 or 171.**Course Designation:** Gen Ed - Quantitative Reasoning Part A  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MATH 198 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2012

**MATH 207 – TOPICS IN MATHEMATICS STUDY ABROAD**

1-5 credits.

Credit is awarded to students who have completed an appropriate math course abroad at the intermediate level having no direct equivalence within the math department offerings. The study abroad course must be pre-approved by the math department.

**Requisites:** Enrollment in a resident study abroad program approval of the math dept

**Course Designation:** Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**MATH 210 – TOPICS IN FINITE MATHEMATICS**

3 credits.

Topics in finite mathematics including elementary matrix algebra, linear programming, introduction to probability, and mathematics of finance. Students planning to take both MATH 210 and MATH 211 are advised to take MATH 210 first. Primarily for students in social and biological science and prebusiness. Students preparing for advanced study in mathematics should take MATH 221-222-223 rather than MATH 210-211-213. Open to Freshmen

**Requisites:** Adv math competency--algebra and suitable placement scores or MATH 112 or 114.

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**MATH 211 – CALCULUS**

5 credits.

Essential concepts of differential and integral calculus; exponential and logarithmic functions; functions of several variables. Primarily for students in prebusiness and some social sciences. Students preparing for advanced study in mathematics, physics, engineering and other sciences should take MATH 221-222-234 rather than MATH 210-211-213. Most students in the biological sciences should take MATH 221. The course MATH 210 is not a prerequisite for MATH 211.

**Requisites:** MATH 112 or MATH 114 or placement into MATH 211

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH 213 – CALCULUS AND INTRODUCTION TO DIFFERENTIAL EQUATIONS**

3 credits.

Techniques of integration, multiple integrals, infinite sequences and series, first order differential equations, two-dimensional systems of differential equations, difference equations, with models from and applications in business and the social and biological sciences.

**Requisites:** MATH 211, MATH 217, MATH 221, or MATH 275

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH 217 – CALCULUS WITH ALGEBRA AND TRIGONOMETRY II**

5 credits.

Continuation of MATH 171. Topics in algebra, trigonometry and precalculus are integrated with elementary differential calculus. Completion of MATH 217 implies completion of MATH 221 and MATH 114.

**Requisites:** MATH 171

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MATH 221 – CALCULUS AND ANALYTIC GEOMETRY 1**

5 credits.

Introduction to differential and integral calculus and plane analytic geometry; applications; transcendental functions.

**Requisites:** MATH 113, 114, or placement in MATH 221

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH 222 – CALCULUS AND ANALYTIC GEOMETRY 2**

4 credits.

Techniques of integration, improper integrals, first order ordinary differential equations, sequences and series, Taylor series, vector geometry in two and three dimensions.

**Requisites:** MATH 217, 221, or 275

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH 228 – WES CALCULUS SUPPLEMENT**

2 credits.

Topics in algebra, trigonometry, differential, integral and multi-variable calculus and analytic geometry will be covered depending on which calculus course MATH 228 is attached to. MATH 228 must be taken in conjunction with the appropriate WES section of MATH 171 or 217 or 221 or 222 or 234.

**Requisites:** Member of Wisconsin Emerging Scholars–MATH Program

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MATH 234 – CALCULUS--FUNCTIONS OF SEVERAL VARIABLES**

4 credits.

Introduction to calculus of functions of several variables; calculus on parameterized curves, derivatives of functions of several variables, multiple integrals, vector calculus.

**Requisites:** MATH 222 or 276

**Course Designation:** Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH/COMP SCI 240 – INTRODUCTION TO DISCRETE MATHEMATICS**

3 credits.

Basic concepts of logic, sets, partial order and other relations, and functions. Basic concepts of mathematics (definitions, proofs, sets, functions, and relations) with a focus on discrete structures: integers, bits, strings, trees, and graphs. Propositional logic, Boolean algebra, and predicate logic. Mathematical induction and recursion. Invariants and algorithmic correctness. Recurrences and asymptotic growth analysis.

Fundamentals of counting.

**Requisites:** MATH 217, 221, or 275

**Course Designation:** Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH 275 – TOPICS IN CALCULUS I**

5 credits.

Topics in first semester calculus. This is the first semester of the calculus honors sequence. Satisfied Quantitative Reasoning (QR) A requirement

**Requisites:** Course is available by invitation only for freshmen students who placed into MATH 221.

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**MATH 276 – TOPICS IN CALCULUS II**

5 credits.

Topics in second semester calculus. This is the second semester of the calculus honors sequence. It is intended for students who completed MATH 275. Satisfied Quantitative Reasoning (QR) A requirement

**Requisites:** Either MATH 275 or MATH 221 and consent of instructor.

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**MATH 298 – DIRECTED STUDY IN MATHEMATICS**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**MATH/ACT SCI 303 – THEORY OF INTEREST AND LIFE INSURANCE**

3 credits.

Application of calculus to compound interest and insurance functions; interest compounded discretely and continuously; force of interest function; annuities payable discretely and continuously; bonds and yield rates; life tables, life annuities, single and annual premiums for insurance and annuities; reserves.

**Requisites:** MATH 222 or 276

**Course Designation:** Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH/STAT 309 – INTRODUCTION TO PROBABILITY AND MATHEMATICAL STATISTICS I**

3 credits.

Probability and combinatorial methods, discrete and continuous, univariate and multivariate distributions, expected values, moments, normal distribution and derived distributions, estimation.

**Requisites:** MATH 234 or concurrent enrollment; not open to students who have taken MATH/STAT/MATH 431 or STAT 311

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH/STAT 310 – INTRODUCTION TO PROBABILITY AND MATHEMATICAL STATISTICS II**

3 credits.

This course in mathematical statistical inference aims at providing an understanding of likelihood's central role to statistical inference, using the language of mathematical statistics to analyze statistical procedures, and using the computer as a tool for understanding statistics. Specific topics include: samples and populations, estimation, hypothesis testing, and theoretical properties of statistical inference.

**Requisites:** (MATH/STAT/MATH 309, STAT 311, or MATH/STAT/MATH 431) and (STAT 224, STAT 301, STAT 302, STAT 324, STAT 371, or ECON 310); or graduate standing

**Course Designation:** Breadth - Natural Science  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH 319 – TECHNIQUES IN ORDINARY DIFFERENTIAL EQUATIONS**

3 credits.

Review of linear differential equations; series solution of linear differential equations; boundary value problems; Laplace transforms; possibly numerical methods and two dimensional autonomous systems.

**Requisites:** MATH 222 or 276

**Course Designation:** Breadth - Natural Science  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH 320 – LINEAR ALGEBRA AND DIFFERENTIAL EQUATIONS**

3 credits.

Introduction to linear algebra, including matrices, linear transformations, eigenvalues and eigenvectors. Linear systems of differential equations. Numerical aspects of linear problems. Prospective math majors should instead consider MATH 341 for a proof based introductory linear algebra course.

**Requisites:** MATH 222 or 276

**Course Designation:** Breadth - Natural Science  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH 321 – APPLIED MATHEMATICAL ANALYSIS**

3 credits.

Vector analysis: algebra and geometry of vectors, vector differential and integral calculus, theorems of Green, Gauss, and Stokes; complex analysis: analytic functions, complex integrals and residues, Taylor and Laurent series.

**Requisites:** MATH 234 and (MATH 319, 320, 340, 341 or 375)

**Course Designation:** Breadth - Natural Science  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH 322 – APPLIED MATHEMATICAL ANALYSIS**

3 credits.

Sturm-Liouville theory; Fourier series, including mean convergence; boundary value problems for linear second order partial differential equations, including separation of variables and eigenfunction expansions.

**Requisites:** MATH 321 or 376

**Course Designation:** Breadth - Natural Science  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH 331 – AN INTRODUCTION TO PROBABILITY AND MARKOV CHAIN MODELS**

3 credits.

An overview of basic probability including discrete and continuous random variables, moment generating functions, limit theorems, conditional probability and expectations, random walks, and Markov chains.

**Requisites:** MATH 234 or MATH 222 240

**Course Designation:** Breadth - Natural Science  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**MATH 340 – ELEMENTARY MATRIX AND LINEAR ALGEBRA**

3 credits.

Matrix algebra, linear systems of equations, vector spaces, sub-spaces, linear dependence, rank of matrices, determinants, linear transformations, eigenvalues and eigenvectors, diagonalization, inner products and orthogonal vectors, symmetric matrices. Prospective math majors should instead consider MATH 341 for a proof based introductory linear algebra course. Not open to students with credit for MATH 341 or 375

**Requisites:** MATH 222.

**Course Designation:** Breadth - Natural Science  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH 341 – LINEAR ALGEBRA**

3 credits.

This course emphasizes the understanding of concepts in linear algebra and teaches to write and understand proofs in mathematics in general and in linear algebra in particular. Not open to students who have credit for MATH 375

**Requisites:** MATH 234.

**Course Designation:** Breadth - Natural Science  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH 375 – TOPICS IN MULTI-VARIABLE CALCULUS AND LINEAR ALGEBRA**

5 credits.

Vector spaces and linear transformations, differential calculus of scalar and vector fields, determinants, eigenvalues and eigenvectors, multiple integrals, line integrals, and surface integrals.

**Requisites:** MATH 276**Course Designation:** Breadth - Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MATH 376 – TOPICS IN MULTI-VARIABLE CALCULUS AND DIFFERENTIAL EQUATIONS**

5 credits.

Topics in Multi-variable calculus and introduction to differential equations. A total of only 10 credits can be received when all three of the crses MATH 234, 375, 376 are taken. Open to Fr

**Requisites:** MATH 375 or cons inst.**Course Designation:** Breadth - Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MATH 407 – TOPICS IN MATHEMATICS STUDY ABROAD**

1-5 credits.

Credit is awarded to students who have completed an appropriate math course abroad at the advanced level having no direct equivalence within the math department offerings. The study abroad course must be pre-approved by the math department.

**Requisites:** Enrollment in a resident study abroad progmn approval of the math dept**Course Designation:** Breadth - Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**MATH 415 – APPLIED DYNAMICAL SYSTEMS, CHAOS AND MODELING**

3 credits.

An introduction to nonlinear dynamical systems including stability, bifurcations and chaos. The course will give underlying mathematical ideas, but emphasize applications from many scientific fields.

**Requisites:** MATH 319 or 320 or 376**Course Designation:** Breadth - Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MATH 421 – THE THEORY OF SINGLE VARIABLE CALCULUS**

3 credits.

This course covers material in first and second semester calculus but it is intended to teach math majors to write and understand proofs in mathematics in general and in calculus in particular.

**Requisites:** MATH 234**Course Designation:** Breadth - Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MATH/COMP SCI/I SY E 425 – INTRODUCTION TO COMBINATORIAL OPTIMIZATION**

3 credits.

Focuses on optimization problems over discrete structures, such as shortest paths, spanning trees, flows, matchings, and the traveling salesman problem. We will investigate structural properties of these problems, and we will study both exact methods for their solution, and approximation algorithms.

**Requisites:** (MATH 320, 340, 341, or 375) or graduate or professional standing**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**MATH/STAT 431 – INTRODUCTION TO THE THEORY OF PROBABILITY**

3 credits.

Topics covered include axioms of probability, random variables, the most important discrete and continuous probability distributions, expectation and variance, moment generating functions, conditional probability and conditional expectations, multivariate distributions, Markov's and Chebyshev's inequalities, laws of large numbers, and the central limit theorem.

**Requisites:** MATH 234 or 376**Course Designation:** Breadth - Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MATH/COMP SCI/E C E 435 – INTRODUCTION TO CRYPTOGRAPHY**

3 credits.

Cryptography is the art and science of transmitting digital information in a secure manner. This course will provide an introduction to its technical aspects.

**Requisites:** MATH 320, 340, 341, or 375**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**MATH 441 – INTRODUCTION TO MODERN ALGEBRA**

3 credits.

The integers, emphasizing general group and ring properties. Permutation groups, symmetry groups, polynomial rings, leading to notions of abstract groups and rings. Congruences, computations, including finite fields and applications. Emphasis on concepts and concrete examples and computations, not complicated proofs. Students who have taken MATH 541 are not eligible to enroll for this class.

**Requisites:** MATH 340 or MATH 341 Required.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**MATH 443 – APPLIED LINEAR ALGEBRA**

3 credits.

Review of matrix algebra. Simultaneous linear equations, linear dependence and rank, vector space, eigenvalues and eigenvectors, diagonalization, quadratic forms, inner product spaces, norms, canonical forms. For students whose main field of interest is not pure mathematics. Discussion of numerical aspects and applications in the sciences.

**Requisites:** MATH 320, 340, 341, or 375**Course Designation:** Breadth - Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MATH 461 – COLLEGE GEOMETRY I**

3 credits.

An introduction to Euclidean or non-Euclidean geometry at the college level.

**Requisites:** MATH 234 or (MATH 222 and MATH/COMP SCI/MATH 240) or MATH 375**Course Designation:** Breadth - Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MATH/CURRIC 471 – MATHEMATICS FOR SECONDARY SCHOOL TEACHERS**

3 credits.

This is a capstone course for future middle and high school teachers, drawing connections between higher mathematics and school mathematics.

**Requisites:** MATH 341 or MATH 375 or MATH 421, and MATH 461**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MATH/HIST SCI 473 – HISTORY OF MATHEMATICS**

3 credits.

An historical survey of the main lines of mathematical development.

**Requisites:** Cons inst**Course Designation:** Breadth - Either Humanities or Natural Science Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MATH/COMP SCI/STAT 475 – INTRODUCTION TO COMBINATORICS**

3 credits.

Problems of enumeration, distribution, and arrangement. Inclusion-exclusion principle. Generating functions and linear recurrence relations. Combinatorial identities. Graph coloring problems. Finite designs. Systems of distinct representatives and matching problems in graphs. Potential applications in the social, biological, and physical sciences. Puzzles. Problem solving.

**Requisites:** (MATH 320, 340, 341, or 375) or graduate or professional standing**Course Designation:** Breadth - Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MATH 490 – UNDERGRADUATE SEMINAR**

1-3 credits.

Problem solving techniques.

**Requisites:** So st and cons inst**Course Designation:** Breadth - Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MATH 491 – TOPICS IN UNDERGRADUATE MATHEMATICS**

3 credits.

Topics will vary.

**Requisites:** Math 223 or 234 cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016



**MATH/COMP SCI 513 – NUMERICAL LINEAR ALGEBRA**

3 credits.

Direct and iterative solution of linear and nonlinear systems and of eigenproblems. LU and symmetric LU factorization. Complexity, stability, and conditioning. Nonlinear systems. Iterative methods for linear systems. QR-factorization and least squares. Eigenproblems: local and global methods.

**Requisites:** (MATH 340, 341, or 375) and (COMP SCI 200, 300, 301, 302 or 310) or graduate or professional standing

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**MATH/COMP SCI 514 – NUMERICAL ANALYSIS**

3 credits.

Polynomial forms, divided differences. Polynomial interpolation. Polynomial approximation: uniform approximation and Chebyshev polynomials, least-squares approximation and orthogonal polynomials. Numerical differentiation and integration. Splines, B-splines and spline approximation. Numerical methods for solving initial and boundary value problems for ordinary differential equations.

**Requisites:** MATH 340 and (COMP SCI 200, 300, 301, or 310) or graduate or professional standing

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH 519 – ORDINARY DIFFERENTIAL EQUATIONS**

3 credits.

Provides a rigorous introduction to ordinary differential equations and dynamical systems. Intended for math majors and advanced (or graduate) students in other disciplines.

**Requisites:** MATH 319 or 320 or 340, MATH 421 or 521; or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MATH 521 – ANALYSIS I**

3 credits.

The real numbers, elements of set theory, metric spaces and basic topology, sequences and series, limits, continuity, differentiation, integration, sequences and series of functions, uniform convergence.

**Requisites:** MATH 341 or 375 or 421

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH 522 – ANALYSIS II**

3 credits.

Special functions, power series, Fourier series, approximation, contraction principle, characterizations of compactness in metric spaces, applications to differential equations. Differential calculus in normed spaces, including implicit and inverse function theorems. Course is essential for graduate work in mathematics.

**Requisites:** MATH 521, a course in linear algebra (can be taken concurrently) or cons inst

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH/COMP SCI/ISYE/STAT 525 – LINEAR PROGRAMMING METHODS**

3 credits.

Real linear algebra over polyhedral cones; theorems of the alternative for matrices. Formulation of linear programs. Duality theory and solvability. The simplex method and related methods for efficient computer solution. Perturbation and sensitivity analysis. Applications and extensions, such as game theory, linear economic models, and quadratic programming.

**Requisites:** (MATH 320, 340, 341, 375, or 443) or graduate or professional standing

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH 531 – PROBABILITY THEORY**

3 credits.

The course is a rigorous introduction to probability theory at an advanced undergraduate level. Only a minimal amount of measure theory is used, in particular, the theory of Lebesgue integrals is not needed. It is aimed at math majors and Master's degree students, or students in other fields who will need probability in their future careers. The course gives an introduction to the basics (Kolmogorov axioms, conditional probability and independence, random variables, expectation) and discusses some classical results with proofs (DeMoivre-Laplace limit theorems, the study of simple random walk on the one dimensional lattice, applications of generating functions).

**Requisites:** MATH 375, 421, or 521

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MATH 541 – MODERN ALGEBRA**

3 credits.

Groups, normal subgroups, Cayley's theorem, rings, ideals, homomorphisms, polynomial rings, abstract vector spaces.

**Requisites:** MATH 341 or MATH 375 or (MATH 421 and MATH 320) or (MATH 421 and MATH 340)

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH 542 – MODERN ALGEBRA**

3 credits.

Field extensions, roots of polynomials, splitting fields, simple extensions, linear transformations, matrices, characteristic roots, canonical forms, determinants.

**Requisites:** MATH 541

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH 551 – ELEMENTARY TOPOLOGY**

3 credits.

Topological spaces, connectedness, compactness, separation axioms, metric spaces.

**Requisites:** MATH 341 or MATH 375 or (MATH 421 and MATH 320) or (MATH 421 and MATH 340)

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH 552 – ELEMENTARY GEOMETRIC AND ALGEBRAIC TOPOLOGY**

3 credits.

Introduction to algebraic topology. Emphasis on geometric aspects, including two-dimensional manifolds, the fundamental group, covering spaces, basic simplicial homology theory, the Euler-Poincare formula, and homotopy classes of mappings.

**Requisites:** MATH 551 and 542

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**MATH 561 – DIFFERENTIAL GEOMETRY**

3 credits.

Theory of curves and surfaces by differential methods.

**Requisites:** MATH 320 or 340; and MATH 521

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**MATH 567 – ELEMENTARY NUMBER THEORY**

3 credits.

Fundamental theorem of arithmetic, quadratic residues and quadratic reciprocity, number-theoretic functions, certain diophantine equations, Farey fractions, continued fractions.

**Requisites:** MATH 340 or con reg

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH 570 – FUNDAMENTALS OF SET THEORY**

3 credits.

Students will be introduced to the basic concepts of Set Theory including: Set-theoretical paradoxes and means of avoiding them, sets, relations, functions, orders and well-orders, proof by transfinite induction and definitions by transfinite recursion, cardinal and ordinal numbers and their arithmetic, construction of the real numbers, the axiom of choice and its consequences.

**Requisites:** MATH 341, 375, 376, or 421

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**MATH/PHILOS 571 – MATHEMATICAL LOGIC**

3 credits.

Basics of logic and mathematical proofs; propositional logic; first order logic; undecidability.

**Requisites:** MATH 340 or 341 or 375

**Course Designation:** Breadth - Either Humanities or Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH 605 – STOCHASTIC METHODS FOR BIOLOGY**

3 credits.

Intended to provide a rigorous foundation for stochastic modeling of biological systems. The mathematical emphasis is in stochastic analysis and simulation. Biological applications include epidemiological phenomena, biochemical reaction networks and population dynamics. Some basic linear algebra is also recommended

**Requisites:** Math/STAT/MATH 431; Math/STAT/MATH 309 or STAT 311; or cons inst.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**MATH/B M I/BIOCHEM/BMOLCHEM 606 – MATHEMATICAL METHODS FOR STRUCTURAL BIOLOGY**

3 credits.

Intended to provide a rigorous foundation for mathematical modeling of biological structures. Mathematical techniques include ordinary and partial differential equations, 3D Fourier analysis and optimization. Biological applications include protein folding, molecular dynamics, implicit solvent electrostatics, and molecular interactions.

**Requisites:** (MATH 234 or 320) and (COMP SCI 301 or 302)

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**MATH 607 – TOPICS IN MATHEMATICS STUDY ABROAD**

1-5 credits.

Credit is awarded to students who have completed an appropriate math course abroad at the advanced level having no direct equivalence within the math department offerings. The study abroad course must be pre-approved by the math department.

**Requisites:** Enrollment in a resident study abroad program approval of the math dept

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**MATH 608 – MATHEMATICAL METHODS FOR CONTINUUM MODELING IN BIOLOGY**

3 credits.

Intended to provide a rigorous foundation for mathematical modeling of biological systems. The mathematical emphasis is on partial differential equations, particularly reaction-diffusion and transport equations. Biological applications include bacterial chemotaxis, spatio-temporal ecological dynamics, and cell-level reactions.

**Requisites:** MATH 322; MATH 415; MATH/COMP SCI 514, or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**MATH/B M I/BIOCHEM/BMOLCHEM 609 – MATHEMATICAL METHODS FOR SYSTEMS BIOLOGY**

3 credits.

Intended to provide a rigorous foundation for mathematical modeling of biological systems. Mathematical techniques include dynamical systems and differential equations. Applications to biological pathways, including understanding of bistability within chemical reaction systems, are emphasized.

**Requisites:** MATH 340 or 341; MATH 415, or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**MATH 619 – ANALYSIS OF PARTIAL DIFFERENTIAL EQUATIONS**

3 credits.

This course is a rigorous introduction to the theoretical underpinnings of the basic methods and techniques in the modern theory of PDEs. It is aimed at math majors, but will also be useful to some students in the sciences, engineering and economics who feel the need for a deeper understanding of the theory of PDEs. The emphasis is on the exposure to a number of different methods of solution of PDEs and their connection to physical phenomena modeled by the equations. The goals include both learning to solve some basic types of PDEs as well as to understand the motivation behind and inner workings of the techniques involved.

**Requisites:** a) MATH 421 or MATH 521 (b) A course covering basic theory of differential equations, such as one of MATH 319, 320, 322, 376, 519, or consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MATH 621 – ANALYSIS III**

3 credits.

Integration in Euclidean spaces, change of variables, multilinear algebra, vector fields and differential forms, manifolds and tangent spaces, integration on manifolds, Stokes theorem. Classical vector analysis. Cauchy integral theorem. Course is essential for graduate work in mathematics.

**Requisites:** MATH 522 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**MATH 623 – COMPLEX ANALYSIS**

3 credits.

Elementary functions of a complex variable; conformal mapping; complex integrals; the calculus of residues.

**Requisites:** MATH 321 or 521

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MATH 627 – INTRODUCTION TO FOURIER ANALYSIS**

3 credits.

Fourier series and integrals, and their applications.

**Requisites:** MATH 521**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**MATH 629 – INTRODUCTION TO MEASURE AND INTEGRATION**

3 credits.

Lebesgue integral and measure, abstract measure and integration, differentiation, spaces of integrable functions.

**Requisites:** MATH 522**Course Designation:** Breadth - Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MATH/ISY E/OTM/STAT 632 – INTRODUCTION TO STOCHASTIC PROCESSES**

3 credits.

Topics include discrete-time Markov chains, Poisson point processes, continuous-time Markov chains, and renewal processes. Applications to queueing, branching, and other models in science, engineering and business.

**Requisites:** MATH 531 or (MATH/STAT/MATH 431, MATH/STAT/MATH 309 or STAT 311) and (MATH 320, 340, 341, 375, or 421) or graduate standing**Course Designation:** Breadth - Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MATH/ISY E/OTM 633 – QUEUING THEORY AND STOCHASTIC MODELING**

3 credits.

Reliability theory; coherent systems and reliability bounds. Markovian queues and Jackson networks. Steady-state behavior of general service time queues. Priority queues. Approximation methods and algorithms for complex queues. Simulation. Dynamic programming; applications to inventory and queueing.

**Requisites:** Math, Ind Engr 632 or cons inst**Course Designation:** Breadth - Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2010**MATH 635 – AN INTRODUCTION TO BROWNIAN MOTION AND STOCHASTIC CALCULUS**

3 credits.

This course presents an introduction to Brownian motion and its application to stochastic calculus. Sample path properties of Brownian motion, Ito stochastic integrals, Ito's formula, stochastic differential equations and properties of their solutions, and various applications will be included.

**Requisites:** MATH 521 632**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**MATH/E C E 641 – INTRODUCTION TO ERROR-CORRECTING CODES**

3 credits.

A first course in coding theory. Codes (linear, Hamming, Golay, dual); decoding-encoding; Shannon's theorem; sphere-packing; singleton and Gilbert-Varshamov bounds; weight enumerators; MacWilliams identities; finite fields; other codes (Reed-Muller, cyclic, BCH, Reed-Solomon) and error-correction algorithms.

**Requisites:** MATH 320 or 340, and MATH 541 or cons inst**Course Designation:** Breadth - Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MATH 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Senior standing enrollment in the honors program**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2016**MATH 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MATH 691 – UNDERGRADUATE THESIS**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2002

**MATH 692 – UNDERGRADUATE THESIS**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MATH 698 – DIRECTED STUDY**

1-3 credits.

Graded on a Cr/N basis; consent of instructor

**Requisites:** Junior or Senior standing.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**MATH 699 – DIRECTED STUDY**

1-6 credits.

Graded on a lettered basis; requires cons inst

**Requisites:** Jr or Sr st.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MATH 703 – METHODS OF APPLIED MATHEMATICS 1**

3 credits.

Study of the linear algebraic structure underlying discrete equilibrium problems. Boundary value problems for continuous equilibria: Sturm-Liouville equations, Laplace's equation, Poisson's equation, and the equations for Stokes flow. Contour integration and conformal mapping. Applications of dynamics leading to initial value problems for ODEs and PDEs. Green's functions for ODEs and introduction to asymptotic methods for ODEs, e.g. WKB analysis. Separation of variables and eigenfunction expansions for linear PDEs. Examples from physics and engineering throughout. Not open to stdts with cr for Math 701/702

**Requisites:** MATH 340, 521-22, and 623 (or 623 concur), or equiv.  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No  
**Last Taught:** Fall 2017

**MATH 704 – METHODS OF APPLIED MATHEMATICS-2**

3 credits.

Derivation, nature and solution of canonical partial differential equations of applied mathematics. Conservation laws, advection, diffusion. First order PDEs, characteristics, shocks. Traffic flow, eikonal and Hamilton-Jacobi equations. Higher order PDEs: classification, Fourier analysis, well-posedness. Series solutions and integral transforms. Green's functions and distributions. Similarity solutions. Asymptotics of Fourier integrals. Laplace's method, stationary phase. Ship waves. Perturbation methods. Not open to stdts with cr for Math 701-702

**Requisites:** MATH 340, 521-22, and 623 (or 623 concur), or equiv.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MATH 705 – MATHEMATICAL FLUID DYNAMICS**

3 credits.

Advanced introduction to fluid dynamics. Basic concepts; elementary viscous flow; Navier-Stokes equations. Elementary airfoil theory; boundary layers. Vortex motion. Waves. Very viscous flow. Compressible flows. Instabilities, bifurcations, turbulence. Requires working knowledge of multivariate calculus, differential equations and mechanics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MATH 707 – THEORY OF ELASTICITY**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2011**MATH/STAT 709 – MATHEMATICAL STATISTICS**

4 credits.

Introduction to measure theoretic probability; derivation and transformation of probability distributions; generating functions and characteristic functions; conditional expectation, sufficiency, and unbiased estimation; methods of large sample theory including laws of large numbers and central limit theorems; order statistics.

**Requisites:** Cons inst or one yr adv calculus and Math, STAT/MATH 431, Math, STAT/MATH 310**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017



**MATH/STAT 710 – MATHEMATICAL STATISTICS**

4 credits.

Estimation, efficiency, Neyman-Pearson theory of hypothesis testing, confidence regions, decision theory, analysis of variance, and distribution of quadratic forms.

**Requisites:** Stat, MATH/STAT 709**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MATH/COMP SCI 714 – METHODS OF COMPUTATIONAL MATHEMATICS I**

3 credits.

Development of finite difference methods for hyperbolic, parabolic and elliptic partial differential equations. Analysis of accuracy and stability of difference schemes. Direct and iterative methods for solving linear systems. Introduction to finite volume methods. Applications from science and engineering. Students are strongly encouraged to have programming skills (e.g. COMP SCI 200) and some undergraduate numerical analysis (e.g. MATH/COMP SCI 514 or COMP SCI 412), analysis and differential equations (e.g. MATH 322 and MATH 521) and linear algebra (e.g. MATH 341)

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MATH/COMP SCI 715 – METHODS OF COMPUTATIONAL MATHEMATICS II**

3 credits.

Introduction to spectral methods (Fourier, Chebyshev, Fast Fourier Transform), finite element methods (Galerkin methods, energy estimates and error analysis), and mesh-free methods (Monte-Carlo, smoothed-particle hydrodynamics) for solving partial differential equations. Applications from science and engineering. Applications from science and engineering. Students are strongly encouraged to have programming skills (e.g. COMP SCI 200), undergraduate numerical analysis (e.g. MATH/COMP SCI 514 or COMP SCI 412), analysis (MATH 322 and math 521) and linear algebra (e.g. MATH 341 or equiv.)

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MATH 716 – ORDINARY DIFFERENTIAL EQUATIONS**

3 credits.

Existence, uniqueness, and continuous dependence theorems, linear systems, stability, singular points, and boundary value problems. Qualitative behavior of nonlinear equations, stability, Lyapunov functions, invariant manifolds, bifurcation theory, periodic orbits, and connecting orbits.

**Requisites:** Senior (600) level analysis crse or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012**MATH 721 – A FIRST COURSE IN REAL ANALYSIS**

3 credits.

A first course in real analysis concentrating on measures, integration, and differentiation and including an introduction to Hilbert spaces.

**Requisites:** MATH 522**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MATH 722 – COMPLEX ANALYSIS**

3 credits.

The basic theory of functions of one complex variable including Cauchy formula, singularities and residues, meromorphic functions, conformal mappings, harmonic functions, approximation and the nonhomogeneous  $\bar{d}$ -bar equation.

**Requisites:** MATH 721; con reg in 701 or 721**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MATH 725 – A SECOND COURSE IN REAL ANALYSIS**

3 credits.

An introduction to further topics in real analysis: Banach spaces, Fourier transforms, elements of distribution theory, and applications.

**Requisites:** MATH 721**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MATH/COMP SCI/ISYE/STAT 726 – NONLINEAR OPTIMIZATION I**

3 credits.

Theory and algorithms for nonlinear optimization, focusing on unconstrained optimization. Line-search and trust-region methods; quasi-Newton methods; conjugate-gradient and limited-memory methods for large-scale problems; derivative-free optimization; algorithms for least-squares problems and nonlinear equations; gradient projection algorithms for bound-constrained problems; and simple penalty methods for nonlinearly constrained optimization. Students are strongly encouraged to have knowledge of linear algebra (e.g. MATH 320, MATH 433) and familiarity with basic mathematical analysis.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016



**MATH 727 – CALCULUS OF VARIATIONS AND RELATED TOPICS**

3 credits.

Introduction to some classical methods in the calculus of variations and continues on to modern direct methods. Techniques for establishing and studying minima and other critical points will be developed. Applications will be chosen from a wide variety of fields: geometry, differential equations, classical mechanics, geodesics, and optimal control theory. Background material in the areas of application will be provided.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2009**MATH/COMP SCI/I SY E 728 – INTEGER OPTIMIZATION**

3 credits.

Introduces optimization problems over integers, and surveys the theory behind the algorithms used in state-of-the-art methods for solving such problems. Special attention is given to the polyhedral formulations of these problems, and to their algebraic and geometric properties. Applicability of Integer Optimization is highlighted with applications in combinatorial optimization. Key topics include: formulations, relaxations, polyhedral theory, cutting planes, decomposition, enumeration. Students are strongly encouraged to have knowledge of Linear Programming (e.g., COMP SCI/I SY E/MATH/COMP SCI/I SY E/STAT 525), including algorithms, duality and polyhedral theory.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MATH/COMP SCI/I SY E 730 – NONLINEAR OPTIMIZATION II**

3 credits.

Theory and algorithms for nonlinearly constrained optimization. Relevant geometric concepts, including tangent and normal cones, theorems of the alternative, and separation results. Constraint qualifications. Geometric and algebraic expression of first-order optimality conditions. Second-order optimality conditions. Duality. Nonlinear programming algorithms: merit functions and filters; interior-point, augmented Lagrangian, and sequential quadratic programming algorithms.

**Requisites:** COMP SCI/I SY E/MATH/STAT/COMP SCI/I SY E/MATH 726**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MATH/STAT 733 – THEORY OF PROBABILITY I**

3 credits.

An introduction to measure theoretic probability and stochastic processes. Topics include foundations, independence, zero-one laws, laws of large numbers, convergence in distribution, characteristic functions, central limit theorems, random walks, conditional expectations.

**Requisites:** MATH 629, 721, or concurrent registration in 721, or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MATH/STAT 734 – THEORY OF PROBABILITY II**

3 credits.

Continuation of 831. Possible topics include martingales, weak convergence of measures, introduction to Brownian motion.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MATH 735 – STOCHASTIC ANALYSIS**

3 credits.

Foundations of continuous time stochastic processes, semimartingales and the semimartingale integral, Ito's formula, stochastic differential equations, stochastic equations for Markov processes, application in finance, filtering, and control.

**Requisites:** MATH/STAT 431 cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**MATH 740 – ENUMERATIVE COMBINATORICS/SYMMETRIC FUNCTIONS**

3 credits.

Introductory graduate course on algebraic combinatorics. Topics: inclusion-exclusion principle, permutation statistics, sieve methods, unimodal sequences, posets, lattice theory, Mobius functions, generating functions, bases and transition matrices for symmetric functions, Young tableaux, plane partitions, polytopes, poset homology, Stanley-Reisner rings.

**Requisites:** MATH 541 542 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MATH 741 – ABSTRACT ALGEBRA**

3 credits.

The basic prerequisite for all advanced graduate courses in algebra. Usually a study of finite groups and noncommutative rings. Group theoretic topics may include: permutation groups, Lagrange's theorem, Cauchy's theorem and the Sylow theorems, solvable and nilpotent groups. Ring theoretic topics may include: Artinian rings and modules, the Wedderburn theorems, the Hopkins-Levitzki theorem, the Jacobson radical and density theorem.

**Requisites:** MATH 542 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**MATH 742 — ABSTRACT ALGEBRA**

3 credits.

Continuation of 741. Usually the study of commutative rings and fields. Ring theoretic topics may include: modules over PIDs, Noetherian rings and the Hilbert basis theorem, the Lasker-Noether theorem, the Krull intersection theorem, integrality and the Hilbert Nullstellensatz. Field theoretic topics may include: algebraic extensions, Galois theory, solvability of polynomials and classical constructability problems.

**Requisites:** MATH 741**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MATH 745 — THEORY OF GROUPS**

3 credits.

Usually covers a selection of topics in finite group theory including: subnormality, coprime actions, the Schur-Zassenhaus theorem, solvable and nilpotent groups, transfer theory and its applications, and normal p-complement theorems. Occasionally, the focus may be on some aspects of infinite group theory.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**MATH 746 — TOPICS IN RING THEORY**

3 credits.

Will alternate between commutative and noncommutative ring theory. Commutative topics include localization; local rings; dimension theory; Cohen-Macaulay rings. Noncommutative topics include projective modules; injective modules; flat modules; homological and global dimension; Wedderburn and Goldie rings.

**Requisites:** MATH 741, 742 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**MATH 747 — LIE ALGEBRAS**

3 credits.

Lie algebras and matrix groups. Topics: tangent spaces; exponentials; Baker-Campbell-Hausdorff formula; (nilpotent, solvable, semisimple) Lie algebras; Engel's and Lie's theorems; Levi decomposition; Killing form;  $\mathfrak{sl}(2)$ -representations; root systems; Dynkin diagrams; Weyl groups; Cartan and Borel subalgebras; Serre's theorem.

**Requisites:** MATH 541 542 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**MATH 748 — ALGEBRAIC NUMBER THEORY**

3 credits.

An introductory graduate level course on algebraic number theory. Topics: a rigorous introduction to the arithmetic of number fields; algebraic integers, geometry of numbers, Dirichlet's Unit Theorem, ideal class groups, first case of Fermat's Last Theorem; prime decompositions, Galois automorphisms.

**Requisites:** MATH 741-742 or equiv or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**MATH 749 — ANALYTIC NUMBER THEORY**

3 credits.

An introduction to (abelian) Hecke L-functions and their arithmetic applications to topics such as the distribution of primes and the study of ideal class groups.

**Requisites:** MATH 741-742 or equiv or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MATH 750 — HOMOLOGICAL ALGEBRA**

3 credits.

A first course in homological algebra. Topics include: complexes, cohomology, double complexes, spectral sequences; abelian categories, derived categories, derived functors; Tor and Ext, Koszul complexes; group cohomology; sheaf cohomology, hypercohomology. May be taken concurrently with MATH 742

**Requisites:** MATH 741-742 or equiv or cons inst.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**MATH 751 — INTRODUCTORY TOPOLOGY I**

3 credits.

An introduction to algebraic and differential topology. Elements of homotopy theory, fundamental group, covering spaces. Differentiable manifolds, tangent vectors, regular values, transversality, examples of compact Lie groups. Homological algebra, chain complexes, cell complexes, singular and cellular homology, calculations for surfaces, spheres, projective spaces, etc.

**Requisites:** MATH 541 and 551 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**MATH 752 – INTRODUCTORY TOPOLOGY II**

3 credits.

Continuation of 751. Cohomology, Universal Coefficient Theorem, Kunneth Formula, cup and cap products, applications to manifolds, orientability, Poincare Duality. Differential forms, integration and Stokes Theorem, De Rham Theorem. Calculations, further duality theorems, Euler class, Lefschetz Fixed-Point Theorem.

**Requisites:** MATH 751 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MATH 753 – ALGEBRAIC TOPOLOGY I**

3 credits.

Higher homotopy groups, elements of obstruction theory, fibrations, bundle theory, classifying spaces, applications to smooth manifolds, differential forms, vector bundles, characteristic classes, cobordism, applications and calculations.

**Requisites:** MATH 752 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**MATH 754 – ALGEBRAIC TOPOLOGY II**

3 credits.

Continuation of 753. Topics include: spectral sequences and their applications, topology of Lie Groups, H-spaces, Hopf Algebras, homotopy classification of bundles, the Steenrod Algebra and its applications, introduction to generalized cohomology theories, spectra, elements of K-theory.

**Requisites:** MATH 753 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2001**MATH 761 – DIFFERENTIABLE MANIFOLDS**

3 credits.

Differentiable manifolds, vector bundles, implicit function theorem, submersions and immersions, vector fields and flows, foliations and Frobenius theorem, differential forms and exterior calculus, integration and Stoke's theorem, De Rham theory, Riemannian metrics.

**Requisites:** MATH 522 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MATH 762 – DIFFERENTIAL TOPOLOGY**

3 credits.

This course introduces the fundamental techniques and theorems of differential topology. The following topics will be covered: Submersions and immersions, Jet bundles, approximation, Sard's theorem, Whitney embedding theorem, transversality, intersection theory, Poincare-Hopf theorem, isotopy, Hopf-degree theorem, Cobordism, Morse theory, classification of two-manifolds.

**Requisites:** MATH 761**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2010**MATH 763 – INTRODUCTION TO ALGEBRAIC GEOMETRY**

3 credits.

Algebraic preliminaries, including local rings; valuation theory, and power series rings; geometry of algebraic varieties with emphasis on curves and surfaces.

**Requisites:** MATH 741-742**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MATH 764 – INTRODUCTION TO ALGEBRAIC GEOMETRY**

3 credits.

Continuation of MATH 763.

**Requisites:** MATH 763**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MATH 765 – DIFFERENTIAL GEOMETRY**

3 credits.

This course covers the metric properties of Riemannian manifolds. The following topics will be covered: Vector bundles and connections, Riemannian metrics, submanifolds and second fundamental form, first variation of arc length, geodesics, Hopf-Rinow theorem, second variation of arc length, Jacobi fields and index lemmas, Bonnet-Meyer theorem, Rauch comparison theorem, spaces of constant curvature, Hodge-de Rham theory.

**Requisites:** MATH 761**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017

**MATH 770 – FOUNDATIONS OF MATHEMATICS**

3 credits.

First-order logic syntax and semantics, Completeness and Compactness Theorems, Lowenheim-Skolem Theorem, computable and computably enumerable sets, Incompleteness Theorem, axioms of Zermelo-Fraenkel set theory with choice, ordinal and cardinal arithmetic.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MATH 771 – SET THEORY**

3 credits.

Martin's Axiom, Suslin and Aronszajn trees, diamond principle, absoluteness and reflection, constructible universe, and one-step forcing constructions.

**Requisites:** MATH 770**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**MATH 773 – COMPUTABILITY THEORY**

3 credits.

Turing degree and jump, strong reducibilities, arithmetic hierarchy, index sets, simple and (hyper)hypersimple sets, easy forcing arguments in computability theory, finite and infinite injury, Friedberg-Muchnik and Sacks Splitting Theorem, Sacks Jump and Sacks Density Theorems, computable ordinals.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**MATH 776 – MODEL THEORY**

3 credits.

Review of compactness and some consequences. Quantifier elimination with examples. The omitting types theorem. Categoricity. Baldwin-Lachlan theory. Strongly minimal and o-minimal theories. Saturated models. Morley's theorem.

**Requisites:** MATH 770**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MATH/CBE/E C E 777 – NONLINEAR DYNAMICS, BIFURCATIONS AND CHAOS**

3 credits.

Advanced interdisciplinary introduction to qualitative and geometric methods for dissipative nonlinear dynamical systems. Local bifurcations of ordinary differential equations and maps. Chaotic attractors, horseshoes and detection of chaos.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**MATH 790 – MASTERS THESIS**

1-3 credits.

This course is intended for students who work on a Master's thesis under the supervision of a faculty member.

**Requisites:** Enrollment in the Foundations of Advanced Studies option of the department's Master's program, and consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, for 2 number of completions**MATH 801 – TOPICS IN APPLIED MATHEMATICS**

3 credits.

Selected topics in applied mathematics, applied analysis or numerical analysis and scientific computing.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MATH/STAT 803 – EXPERIMENTAL DESIGN I**

3 credits.

Summary of matrix algebra required, theory of estimable functions, incomplete blocks, balanced incomplete block designs, partially balanced incomplete block designs.

**Requisites:** Stats 310 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MATH 805 – SPECIAL FUNCTIONS**

3 credits.

Special functions arising from mathematics, physics, and engineering, their series and integral representations, differential and other functional equations, generating functions, and orthogonality.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2010

**MATH 807 – DYNAMICAL SYSTEMS**

3 credits.

Treats the qualitative behavior of continuous and discrete dynamical systems, including Hamiltonian systems of differential equations. Typical topics include periodic and almost periodic solutions, the fixed point theorem of Poincaré and Birkhoff, invariant curves and KAM theory, celestial mechanics, and chaotic behavior.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2008**MATH 812 – ADVANCED METHODS OF APPLIED MATHEMATICS**

3 credits.

Differential equations; asymptotic methods in complex analysis; problems of matching; integral transforms; integral equations; introduction to spectral theory; calculus of variations; tensor analysis.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2013**MATH 819 – PARTIAL DIFFERENTIAL EQUATIONS**

3 credits.

Classical theory of partial differential equations, together with an introduction to the modern theory based on functional analysis.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MATH 820 – PARTIAL DIFFERENTIAL EQUATIONS**

3 credits.

Continuation of MATH 819.

**Requisites:** MATH 819**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MATH 821 – ADVANCED TOPICS IN REAL ANALYSIS**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MATH 823 – ADVANCED TOPICS IN COMPLEX ANALYSIS**

3 credits.

Several complex variables. Basic several complex variables or more special topics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MATH 825 – SELECTED TOPICS IN FUNCTIONAL ANALYSIS**

3 credits.

Topics will vary and may include spectral theory, nonlinear functional analysis or abstract harmonic analysis.

**Requisites:** Cons inst or MATH 722**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**MATH 826 – ADVANCED TOPICS IN FUNCTIONAL ANALYSIS AND DIFFERENTIAL EQUATIONS**

3 credits.

Continuation of MATH 825.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**MATH 827 – FOURIER ANALYSIS**

3 credits.

Introduction to Fourier analysis in Euclidean spaces and related topics that may include singular and oscillatory integrals and trigonometric series.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MATH 828 – ADVANCED TOPICS IN HARMONIC ANALYSIS**

3 credits.

Continuation of MATH 827. Advanced topics related to research in harmonic analysis.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017



**MATH/STAT 833 – TOPICS IN THE THEORY OF PROBABILITY**

3 credits.

Topics in probability and stochastic processes.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MATH/COMP SCI 837 – TOPICS IN NUMERICAL ANALYSIS**

3 credits.

Advanced topics in numerical analysis relevant to current research at UW. Each offering of the course will cover a topic selected by the instructor.

Topics vary and may include fluid dynamics, computational methods, mathematical biology and others.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**MATH/E C E 842 – TOPICS IN APPLIED ALGEBRA**

3 credits.

Applied topics with emphasis on algebraic constructions and structures.

Examples include: algebraic coding theory; codes (algebraic-geometric, convolutional, low-density-parity-check, space-time); curve and lattice based cryptography; watermarking; computer vision (face recognition, multiview geometry).

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MATH 843 – REPRESENTATION THEORY**

3 credits.

Introduction to the representation theory of Lie groups and their combinatorics. Universal enveloping algebras, highest weight modules, induction, restriction, weights, characters, multiplicity formulas, tensor products, Shapovalov forms, filtrations, Kazhdan-Zetlin patterns, Littelmann paths.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**MATH 844 – ARITHMETIC GEOMETRY**

3 credits.

An introduction to arithmetic geometry with emphasis on arithmetic of elliptic curves.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MATH 845 – CLASS FIELD THEORY**

3 credits.

Introduction to local and global class field theory. Theory of local fields; local and global class field theory; complex multiplication, adèles, ideles, idele class characters, Tchebotarev's Density Theorem, CM elliptic curves, construction of class fields of imaginary quadratic fields .

**Requisites:** MATH 748 or 749 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MATH 846 – TOPICS IN COMBINATORICS**

3 credits.

Topics in algebraic combinatorics such as (but not limited to) association schemes, hypergeometric series, classical orthogonal polynomials, codes, lattices, invariant theory, alternating sign matrices and domino tilings, statistical mechanical models, 6j-symbols, buildings and diagram geometries, matroids.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**MATH 847 – TOPICS IN ALGEBRA**

3 credits.

Topics may include: Lie groups, algebraic groups, Chevalley groups, simple groups and associated geometries, group cohomology, group rings, Hopf algebras, enveloping algebras, quantum groups, infinite-dimensional Lie algebras, Hecke algebras, automorphic forms, Galois representations, zeta and L-functions, abelian varieties.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MATH 848 – ADVANCED TOPICS IN NUMBER THEORY**

3 credits.

This is an advanced graduate topic course in number theory. Topics will vary. Target audience: Advanced graduate students in number theory, representation theory, and algebraic geometry.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**MATH 849 – AUTOMORPHIC FORMS**

3 credits.

Classical and/or modern theory of automorphic forms. Representation theory of  $GL(2)$ .**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions



**MATH 851 — TOPICS IN GEOMETRIC TOPOLOGY**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MATH 853 — TOPICS IN ALGEBRAIC TOPOLOGY**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**MATH 856 — TOPICS IN DIFFERENTIAL TOPOLOGY**

3 credits.

The theory of differential manifolds such as differential forms and de Rham theorem, cobordism groups, Lie groups, homogeneous spaces, fiber bundles, characteristic classes.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MATH 863 — ADVANCED TOPICS IN ALGEBRAIC GEOMETRY**

3 credits.

Geometry of several complex variables; algebraic groups, abelian varieties; topological aspects of algebraic geometry, including sheaf theory and homology theory; advanced theory of local rings; intersection theory of algebraic varieties.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MATH 865 — ADVANCED TOPICS IN GEOMETRY**

3 credits.

Selected from advanced projective geometry, non-Euclidean geometry, Riemannian geometry, distance geometry and the geometry of convex surfaces, geometry of numbers.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MATH 867 — ANALYTIC NUMBER THEORY**

3 credits.

Prime number theory, prime number theory for arithmetic progressions, additive number theory, density theorems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**MATH 873 — ADVANCED TOPICS IN FOUNDATIONS**

3 credits.

From all areas of mathematical logic.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MATH 903 — SEMINAR IN MATHEMATICS EDUCATION**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2010**MATH 921 — SEMINAR IN ANALYSIS**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MATH 941 — SEMINAR-ALGEBRA**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MATH 951 — SEMINAR IN TOPOLOGY**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MATH 967 — SEMINAR IN NUMBER THEORY**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**MATH 975 – SEMINAR-THE FOUNDATIONS OF MATHEMATICS**

1-3 credits.

From all areas of mathematical logic.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**MATH 990 – READING AND RESEARCH**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MATH 991 – SEMINAR IN APPLIED MATHEMATICS**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2009**MECHANICAL ENGINEERING (M E)****M E 1 – COOPERATIVE EDUCATION PROGRAM**

1 credit.

Work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career in industry.

**Requisites:** So st**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**M E 151 – INTRODUCTION TO MECHANICAL ENGINEERING**

2 credits.

Introduction to the field of Mechanical Engineering through problem-solving in the context of small group projects. Fabricate, build, and test prototypes. Introduction to computer software of particular relevance to Mechanical Engineers.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Spring 2017**M E 160 – ARCHITECTURAL GRAPHICS**

3 credits.

The skill of communicating through the graphic media of freehand and instrumental drawing. Architectural presentation, isometric, perspective and shades and shadows.

**Requisites:** Open to Freshmen**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 170 – CIVIL ENGINEERING GRAPHICS**

2 credits.

To develop an awareness of and appreciation for work that is characteristic of civil engineering. Graphical communication including lettering, drawing equipment and techniques; geometric construction, orthographic projections, pictorial drawing, and technical sketching, isometric, oblique and perspective projections, descriptive geometry, computer-aided design drawing, applications to civil engineering problems.

**Requisites:** Open to All Undergrads**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 201 – INTRODUCTION TO MECHANICAL ENGINEERING**

3 credits.

Provides an introduction to the field of Mechanical Engineering in the context of a major, semester-long project that is carried out in small groups as well as several, smaller hands-on projects during the semester. Students will obtain a shop pass, design build and test small prototypes using the shop as well as 3-D printing, take measurements using various instruments, and use a microcontroller to control a system. Students will be introduced to software that is particularly useful to Mechanical Engineers including SolidWorks and EES. Students will learn how to design experiments, obtain data, use data to develop simple models of systems, exercise models for the purposes of design, and present their results professionally. It will provide a context for the math, physics and chemistry classes that are taken during the first year of the Mechanical Engineering curriculum and also provide a preview of future ME courses and should also give you a glimpse into the breadth of opportunities afforded by a mechanical engineering degree.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 231 – INTRODUCTORY ENGINEERING GRAPHICS**

2 credits.

A freshman level course which provides the undergraduate engineering student with a background in descriptive geometry, orthographic projection, engineering drawing standards and annotation, and computer-aided engineering graphics. Point line and plane relationships in projection; multi-view engineering drawings; auxiliary and section views; basic dimensioning and annotation; engineering applications. Open to Fr

**Requisites:** Pre-admission to College of Engr.**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 240 – DYNAMICS**

3 credits.

Rectilinear and curvilinear motion of a particle; force, mass, acceleration; work, potential, and kinetic energy; impulse and momentum; kinematics of rigid bodies; moving coordinate systems with relative motion; general planar rigid body kinematics and kinetics. Applications to linkages, cams and geared systems.

**Requisites:** EMA 201, MATH 222**Repeatable for Credit:** No**Last Taught:** Fall 2017

**M E 273 – ENGINEERING PROBLEM SOLVING WITH EES**

1 credit.

This course will serve the dual purpose of providing students with a high level of proficiency in the Engineering Equation Solver software as well as giving students the opportunity to solve high-level engineering problems using this tool. Students leaving the course will have a very solid understanding of equation solving software including advanced features that would not be covered in any other class on campus. Students will also get another opportunity to apply sophisticated computing tools to engineering applications.

**Requisites:** MATH 222**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 291 – UNGERGRADUATE MECHANICAL ENGINEERING PROJECTS**

1-3 credits.

Individual lab projects under staff supervision.

**Requisites:** Consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**M E 299 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**M E 306 – MECHANICS OF MATERIALS**

3 credits.

Mechanical stress and strain, deformation under tension and compression, torsion of shafts, beam bending stresses and deflections, design of beams and shafts, pressure vessels, principal stress and strain, buckling, impact, strain energy analysis.

**Requisites:** EMA 201, MATH 222**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E/E M A 307 – MECHANICS OF MATERIALS LAB**

1 credit.

Data processing, tension/compression tests, creep stress concentrations, fatigue, fracture, composite materials, combined stress, beam flexure, dynamic loads, buckling.

**Requisites:** ME 306 or concurrent registration**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 313 – MANUFACTURING PROCESSES**

3 credits.

A quantitative and qualitative study of manufacturing processes including machining, forming; welding, and casting for metals; and extrusion, injection molding, thermoforming, and blow molding for plastics. Emphasis on process selection for optimum design. Laboratory experiments and demonstrations. Quality, strength, and economic evaluations.

**Requisites:** MSE 350 or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 314 – MANUFACTURING FUNDAMENTALS**

3 credits.

An introduction to techniques for modeling in materials processing and improving decision making in increasing the productivity of design and manufacturing processes. Quality improvement and engineering simulation tools are presented as well as the methods of engineering economy and the role of manufacturing automation and systems, through lectures and laboratories.

**Requisites:** STAT 224 ME 313 or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 331 – GEOMETRIC MODELING FOR ENGINEERING APPLICATIONS**

3 credits.

A junior level course introduces undergraduate engineering students to fundamental concepts in geometric modeling of engineering form, and computer-aided design of shapes, components, and assemblies. Lectures are reinforced by the laboratory experience where students operate modern commercial computer-aided design systems to model and to learn the basics of engineering communication, specification, and annotation.

**Requisites:** ME 231 MATH 320 Comp Sci 302 either ME 240 or EMA 202**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 340 – INTRODUCTION TO DYNAMIC SYSTEMS**

3 credits.

Mathematical modeling and analysis of dynamic systems with mechanical, thermal, and fluid elements. Topics: time domain solutions, analog computer simulation, linearization techniques, block diagram representation, numerical methods and frequency domain solutions.

**Requisites:** Comp Sci 302, ME 240 or EMA 202 or equiv, MATH 320**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 342 – DESIGN OF MACHINE ELEMENTS**

3 credits.

Analysis and design of machine elements and machines; loads, stresses, deflections, material selection, fatigue failure, finite elements; mechanical power transmission components including gearing, bearings, shafting, and frictional devices.

**Requisites:** ME 306, 307 or EMA 307, and ME 331, 340**Repeatable for Credit:** No**Last Taught:** Fall 2017

**M E 349 – ENGINEERING DESIGN PROJECTS**

3 credits.

Applied engineering design projects. Emphasis on design of practical mechanical engineering systems, devices and/or components. Two 2-hr labs and one lecture per week. Lecture focuses on the design process, creativity, patents, and other applications to practical problems.

**Requisites:** ME 314, 342 364**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 351 – INTERDISCIPLINARY EXPERIENTIAL DESIGN PROJECTS I**

3 credits.

First of a two-course sequence in which students design and fabricate systems and devices, typically having an interdisciplinary aspect. In the first course, emphasis will be on project planning, team dynamics, problem identification, and conceptual design and evaluation.

**Requisites:** Sr st in ME or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 352 – INTERDISCIPLINARY EXPERIENTIAL DESIGN PROJECTS II**

3 credits.

Second of a two-course sequence in which students design and fabricate systems and devices, typically having an interdisciplinary aspect. In the second course, emphasis will be on detailed design, fabrication, testing, and modification of concepts developed in the previous course.

**Requisites:** ME 351 Sr st in ME or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 361 – THERMODYNAMICS**

3 credits.

First and second laws of thermodynamics; thermodynamic properties of gases, vapors, and gas-vapor mixtures; energy-systems analysis including power cycles, refrigeration cycles and air-conditioning processes. Introduction to thermodynamics of reacting mixtures.

**Requisites:** MATH 234 Comp Sci 302, ME 240 or EMA 202, or equivalent**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 363 – FLUID DYNAMICS**

3 credits.

Laws of mechanics and thermodynamics applied to fluids at rest and in motion; potential flow; dimensional analysis; viscous flow; pipe flow; boundary-layer theory; compressible flow.

**Requisites:** MATH 320, ME 361 Comp Sci 302 or equiv**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 364 – ELEMENTARY HEAT TRANSFER**

3 credits.

Fundamental concepts of conduction, convection, radiation. Heat-exchanger principles.

**Requisites:** ME 363 or equiv**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 368 – ENGINEERING MEASUREMENTS AND INSTRUMENTATION**

4 credits.

Theory of modern instrumentation, the design and execution of experiments and the analysis of experimental data. Laboratory provides direct experience with concepts in the context of experimental design for hypothesis testing, for product evaluation and for control system design.

**Requisites:** ME 340, 361 ECE 376**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 370 – ENERGY SYSTEMS LABORATORY**

3 credits.

Experimental evaluation and analysis of performance of various energy conversion systems such as turbines, compressors, refrigerators, fans, and internal combustion engines.

**Requisites:** ME 363, 368, EPD 397**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 379 – MECHANICAL DISSECTION**

1 credit.

Laboratory examination of the design of pumps, turbines, engines, heat-exchangers, household appliances, and other mechanical equipment. Operational design materials, manufacturing, failure and marketing considerations.

**Requisites:** Sr st in mech engr or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2013**M E/B M E 415 – BIOMECHANICS OF HUMAN MOVEMENT**

3 credits.

An overview of experimental and modeling techniques used to study human movement. Specific topics will include locomotion, motion capture systems, force plates, muscle mechanics, musculoskeletal modeling, three dimensional kinematics, inverse dynamics, forward dynamic simulation and imaging based biomechanics. Homework and laboratory activities will be conducted that emphasize applications of movement biomechanics in orthopedics and rehabilitation. The course will culminate in a class project related to each student's research interests.

**Requisites:** Senior or graduate standing, ME 240, ME 340, BME 315**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 417 – INTRODUCTION TO POLYMER PROCESSING**

3 credits.

Description of the physical, thermal, mechanical, and rheological properties of polymeric materials relevant to their processing behavior. Review of the basic transport phenomena equations: mass, momentum, and energy. Analysis of various processing operations for the manufacture of polymeric articles, with particular emphasis on: extrusion, injection molding, blow molding, thermoforming, and compression molding. Discussion of plastics recycling issues.

**Requisites:** Sr st or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017

**M E 418 – ENGINEERING DESIGN WITH POLYMERS**

3 credits.

Implications for plastics part design of polymer classification, structure, melt rheology, mixing, polymer blends, anisotropy, solidification, mechanical behavior, failure. Plastics design for electrical, optical, acoustic and barrier properties.

**Requisites:** Sr st or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 419 – FUNDAMENTALS OF INJECTION MOLDING**

3 credits.

All major aspects of injection molding with emphases on design, processing, process physics, computer-aided engineering (CAE), troubleshooting, and advanced molding processes. Field trip, video presentation, case studies, term project with oral presentation, and hands-on sessions using commercial CAE simulation software.

**Requisites:** Sr or Grad st**Repeatable for Credit:** No**Last Taught:** Fall 2016**M E 420 – INTRODUCTION TO POLYMER COMPOSITES PROCESSING**

3 credits.

A brief description of the physical, thermal, rheological and mechanical properties of composite materials. Apply fundamental transport phenomena concepts to solve problems dealing with flow through porous media, fiber orientation, curing reactions, shrinkage and warpage and mechanics of composites. Introduction of various processing operations for the manufacture of composites products, with particular emphasis on resin transfer molding, vacuum assisted resin infusion, injection and compression molding, filament winding, braiding and pultrusion. The course includes laboratory experiments, CAE applied to composites product design, and a final group project producing a composites product.

**Requisites:** Senior status or consent of instructor**Repeatable for Credit:** No**Last Taught:** Summer 2017**M E/STAT 424 – STATISTICAL EXPERIMENTAL DESIGN**

3 credits.

This course provides a systematic introduction to statistical design and analysis of experiments. Topics include: principles of randomization, blocking and replication, randomized blocking designs, Latin square designs, full factorial and fractional factorial designs and response surface methodology. Substantial focus will be devoted to engineering applications.

**Requisites:** An introductory statistics course (STAT 224 or STAT 301 or STAT 302 or STAT 324 or STAT 371)**Course Designation:** Breadth - Natural Science  
Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E/CBE/CHEM/E M A 425 – UNDERGRADUATE RHEOLOGY SEMINAR**

1 credit.

Rheology seminar course encouraged for all interested in professions related to polymers, suspensions or rheology; will not count toward credit requirement of the major.

**Requisites:** Junior standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**M E 429 – METAL CUTTING**

3 credits.

Theory and applications of metal cutting; basic principles; significant features of current research. Chip formation mechanics, three-dimensional machining operations, tool life and machinability, economics of metal removal, and precision engineering.

**Requisites:** Sr st in engr or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E/M S & E 435 – JOINING OF MATERIALS: STRUCTURAL, ELECTRONIC, BIO AND NANO MATERIALS**

3 credits.

Structural (metallic, ceramic, plastic, composite): welding, soldering, brazing, diffusion bonding, adhesive bonding. Electronic: wave and reflow soldering; wire, flip-chip and wafer bonding. Bio: hip and knee implants; dental restorations and implants; medical devices. Nano: nano tubes, wires, fibers and composites.

**Requisites:** MSE 350 or 351 or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2011**M E 437 – ADVANCED MATERIALS SELECTION**

3 credits.

A structured approach is developed to address the complex problem of materials selection in design where multiple constraints and conflicting objectives need to be considered. Topics include: introductory fracture mechanics; corrosion and corrosion mitigation; effects of manufacturing processes and process selection; property development in metals, ceramics, polymers and composites; and material analysis techniques.

**Requisites:** M E 313**Repeatable for Credit:** No**Last Taught:** Spring 2017**M E/E C E 439 – INTRODUCTION TO ROBOTICS**

3 credits.

Hands-on introduction to key concepts and tools underpinning robotic systems in use and development today. Intended to give students the tools to understand robotic systems, to explore robotics for their own purposes, and to pursue advanced study in the field. Students are expected to have familiarity with a high level programming language such as Python (recommended), MATLAB, Java or Julia.

**Requisites:** Senior or graduate standing**Repeatable for Credit:** No**Last Taught:** Fall 2017



**M E 440 – INTERMEDIATE VIBRATIONS**

3 credits.

Harmonic motion; natural frequencies and vibration of damped and undamped single and multi-degree of freedom systems; modal analysis; influence coefficients; lumped-mass modeling; dynamic load factors; Rayleigh's method; flow-induced vibrations; shaft whirl; balancing; vibration absorbers and tuned mass dampers; finite element modeling.

**Requisites:** ME 306, ME 340**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E/BSE/FOOD SCI 441 – RHEOLOGY OF FOODS AND BIOMATERIALS**

3 credits.

Fundamentals of rheology and rheological evaluations of food and biomaterials; structure-function relationships.

**Requisites:** PHYSICS 201 or CBE/B M E 320 or ME 363 or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2016**M E 444 – DESIGN PROBLEMS IN ELASTICITY**

3 credits.

Analysis of elastic systems by strain-energy techniques. Determination of stresses and deflections in statically indeterminate structures encountered in design. Resilience in springs.

**Requisites:** ME 342 or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2016**M E 445 – MECHATRONICS IN CONTROL & PRODUCT REALIZATION**

3 credits.

The course will cover fundamentals of electromechanical control systems with a focus on subsystem design impacts at the system level. Students will learn how to integrate microcontrollers into products for control and/or instrumentation and learn how to create intelligent interfaces. \* Motor sensor interfaces \* C programming \* Control computer system architecture \* Software and hardware principles for computer control The following experience would be extremely advantageous to have coming in but in not assumed: Experience designing/fabricating/debugging digital circuits and active/passive analog circuits. Experience in any function based programming language (Matlab/Python/Java/C/C++). Experience with Electrical Mechanical CAD tools (Altium Designer etc./ Solidworks etc.).

**Requisites:** ME/ECE 376 or physics based circuits course**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 446 – AUTOMATIC CONTROLS**

3 credits.

Sequencing control. Theory of linear feedback control systems with illustrative examples taken from applications encountered by mechanical engineers; differential equations for defining dynamic system response, Laplace transforms, and transient and frequency response concepts.

**Requisites:** ME 340 or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 447 – COMPUTER CONTROL OF MACHINES AND PROCESSES**

3 credits.

Discrete control theory reduced to engineering practice through a comprehensive study of discrete system modeling, system identification and digital controller design. Selected industrial processes and machines utilized as subjects on which computer control is to be implemented.

Focus: computer control economics and planning as well as the control theory and programming.

**Requisites:** ME 340 or equiv or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 448 – MECHANICAL SYSTEMS ANALYSIS**

3 credits.

Integrated treatment of mathematical modeling and analysis of mechanical systems. Modeling of linear and nonlinear systems and their performance under transient, periodic and random loads.

**Requisites:** Sr or Grad st in engr or phys sci**Repeatable for Credit:** No**Last Taught:** Fall 2014**M E 449 – REDESIGN AND PROTOTYPE FABRICATION**

3 credits.

The focal point of all lectures and labs is a semester long project. Lectures cover principals of design, manufacturing and prototype evaluation. Students will perform a re-design of a thermo-mechanical device using knowledge/skills acquired both through this course and previous course offerings in thermal sciences, mechanics and dynamics, manufacturing, and design. The lab component provides students with instruction and hands-on experience using the manufacturing tools/processes available in the College of Engineering. In addition, during the lab the students will apply the concepts of the lectures to the fabrication of the semester project. Each student constructs his or her own device during the course of the semester. This course provides a complete engineering experience by combining design, dimensioning and tolerancing, manufacturing and quantitative analysis in a single semester project.

**Requisites:** ME 306; ME 313; ME 331; ME 361; or consent of instructor**Repeatable for Credit:** No**Last Taught:** Spring 2017**M E 450 – DESIGN AND DYNAMICS OF VEHICLES**

3 credits.

Dynamic modelling of vehicles, tire mechanics, suspension kinematics, vehicle stability, vehicle structural design criteria, vehicle vibrations and ride criteria, design considerations for vehicles.

**Requisites:** ME 340 or equiv, Comp Sci 310 or equiv, or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2014**M E 451 – KINEMATICS AND DYNAMICS OF MACHINE SYSTEMS**

3 credits.

Graphical, analytical, and computer methods for the kinematic and dynamic analysis of mechanical linkages, mechanisms, and geared and cam systems.

**Requisites:** ME 240 or equivalent or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2014



**M E 460 – APPLIED THERMAL / STRUCTURAL FINITE ELEMENT ANALYSIS**

3 credits.

The course is designed for undergraduate students with no finite element (FE) analysis experience or knowledge. By the end of the semester the student will be able to simulate 1D, 2D and 3D structural and thermal systems, including both the static and transient response, using a common, commercially available FE software package. Analyses will be performed using both GUI and APDL. The emphasis of the course is on becoming proficient with the software and capable of operating an FE package at a high level, including benchmarking and verifying the FE model using simple analytical checks. An additional emphasis of the course is on understanding the impact of the temperature distribution in an object on the stress field through thermal expansion.

**Requisites:** M E 306, 340, and 364**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**M E 461 – THERMAL SYSTEMS MODELING**

3 credits.

Analysis and design of engineering systems involving applications of thermodynamics, economics, heat transfer, and fluid flow.

**Requisites:** ME 364 or equiv or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2017**M E/M S & E 462 – WELDING METALLURGY**

3 credits.

Metallurgical principles applied to welding; mechanisms of strengthening, phase equilibria, and microstructure of the weld zone. Modern processes including laser and electron beam welding.

**Requisites:** MSE 370 or ME 313 and MSE 350 or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2017**M E 466 – AIR POLLUTION EFFECTS, MEASUREMENTS AND CONTROL**

3 credits.

Overview of human health and environmental effects, and legislation regarding air pollution. Atmospheric transport and transformation of air pollutants. Emissions of air pollutants from power plants, transportation and industrial sources. Control technology for particulate and gaseous emissions. Monitoring and measurement of air pollutants. Application to boilers, engines, industrial processes and solid waste-to-energy technology.

**Requisites:** Senior standing in engr or consent of instructor**Repeatable for Credit:** No**Last Taught:** Spring 2017**M E 469 – INTERNAL COMBUSTION ENGINES**

3 credits.

Fundamental principles of engine operation and application including cycle analysis, gas analysis, effect of operating conditions and engine design on air pollution.

**Requisites:** ME 361 or cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E/BSE 475 – ENGINEERING PRINCIPLES OF AGRICULTURAL MACHINERY**

3 credits.

Engineering design principles of machines for the production, processing and handling of crops for food, fuel, bio-mass and fiber. Environmental and biological factors that influence machine design and operation.

Economic and capacity analysis of machines and systems.

**Requisites:** Declared in Biological Systems Engineering or Mechanical Engineering and E M A 202 or M E 240 or graduate standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E/BSE 476 – ENGINEERING PRINCIPLES OF OFF-ROAD VEHICLES**

3 credits.

Engineering design principles of heavy-duty vehicles intended for off-road use: fuels, engine cycles, engine principles and construction, clutches, mechanical and hydrostatic transmissions, final drives, traction systems, traction modeling, dynamic behavior, suspension systems and braking.

**Requisites:** Declared in Biological Systems Engineering or Mechanical Engineering and M E 361, E M A 202 or M E 240; or graduate standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**M E 489 – HONORS IN RESEARCH**

1-3 credits.

Undergraduate honors research projects supervised by faculty members.

**Requisites:** Admission to mech engr honors in research prgm**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**M E 491 – MECHANICAL ENGINEERING PROJECTS I**

1-3 credits.

Individual lab projects under staff supervision.

**Requisites:** Consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**M E 492 – MECHANICAL ENGINEERING PROJECTS II**

1-3 credits.

Continuation of 491.

**Requisites:** Consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**M E/CIV ENGR./E M A 508 – COMPOSITE MATERIALS**

3 credits.

Physical properties and mechanical behavior of polymer, metal, ceramic, cementitious, cellulosic and biological composite systems; micro- and macro-mechanics; lamination and strength analyses; static and transient loading; fabrication; recycling; design; analytical-experimental correlation; applications.

**Requisites:** M E 444 or M E/EMA 570 or EMA 506 or graduate standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**M E/I SY E 510 – FACILITIES PLANNING**

3 credits.

Introduction to plant location theory and analysis of models of plant location; models for determining plant size and time phasing; line balancing models; techniques for investigating conveyor and other material handling problems; and models of plant layout.

**Requisites:** IE 315, 323, 349 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**M E/I SY E 512 – INSPECTION, QUALITY CONTROL AND RELIABILITY**

3 credits.

Inspection data for quality control; sampling plans for acceptance inspection; charts for process control. Introduction to reliability models and acceptance testing.

**Requisites:** STAT 224

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**M E/I SY E 513 – ANALYSIS OF CAPITAL INVESTMENTS**

3 credits.

A second course in quantitative methods for analyzing capital investments in technological environments, both public and private. Replacement models; comparison of alternative investment models; risk analysis; case studies.

**Requisites:** Ind Engr 313, Ind Engr 323, STAT 311

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**M E 514 – ADDITIVE MANUFACTURING**

3 credits.

Rapid prototyping (RP) has emerged as a popular manufacturing technology to accelerate product creation. This novel manufacturing technology enables the building of parts that have traditionally been impossible to fabricate because of their complex shapes and the variety in materials.

**Requisites:** ME 313 or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**M E/N E 520 – TWO-PHASE FLOW AND HEAT TRANSFER**

3 credits.

Two-phase flow and heat transfer in engineering systems. Pool boiling and flow boiling. Phenomenological modeling.

**Requisites:** ME 361 or Ch E 310 or equiv, Ch E 320 or ME 364 or equiv

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**M E/CBE 525 – MACROMOLECULAR HYDRODYNAMICS**

3 credits.

Observed phenomena in polymeric flow systems. Techniques of viscometry and viscoelastic measurements for polymeric fluids. Rheological models. Analytical solutions to flow problems: non-Newtonian viscosity, linear viscoelasticity, normal stresses, recoil, stress relaxation, etc. Dimensional analysis. Unit operations of the polymer industry: extrusion, blow molding, injection molding, mixing.

**Requisites:** CBE/B M E 320 or ME 363 or equivalent or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**M E/COMP SCI/E C E 532 – THEORY AND APPLICATIONS OF PATTERN RECOGNITION**

3 credits.

Pattern recognition systems and components; decision theories and classification; discriminant functions; supervised and unsupervised training; clustering; feature extraction and dimensional reduction; sequential and hierarchical classification; applications of training, feature extraction, and decision rules to engineering problems.

**Requisites:** MATH 222 and (E C E 203, COMP SCI 200, 300 or 302) or graduate or professional standing

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**M E 535 – COMPUTER-AIDED GEOMETRIC DESIGN**

3 credits.

This course is designed to acquaint the student with computer-aided design technology used for geometric design of mechanical product. Currently used methods of creating three-dimensional computer-aided design (CAD) models will be discussed. The paradigms of three-dimensional wire-frame modeling, surface modeling and solids modeling as applied in product design will be taught. The course will be project oriented and will emphasize building and querying CAD models.

**Requisites:** ME 232 or equiv, program background Sr or Grad st, or cons inst  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**M E/COMP SCI/E C E 539 – INTRODUCTION TO ARTIFICIAL NEURAL NETWORK AND FUZZY SYSTEMS**

3 credits.

Theory and applications of artificial neural networks and fuzzy logic: multi-layer perceptron, self-organization map, radial basis network, Hopfield network, recurrent network, fuzzy set theory, fuzzy logic control, adaptive fuzzy neural network, genetic algorithm, and evolution computing. Applications to control, pattern recognition, nonlinear system modeling, speech and image processing.

**Requisites:** COMP SCI 200, 301, 302, or 310 or graduate or professional standing

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E/E M A 540 – EXPERIMENTAL VIBRATION AND DYNAMIC SYSTEM ANALYSIS**

3 credits.

Application of digital data acquisition to the investigation of mechanical components, structures and systems using time histories, transforms and response functions to characterize free, forced and transient inputs. Introduction to sensors, instrumentation and methods appropriate for dynamic system response.

**Requisites:** ME 340 or ME 440 or EMA 545 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 545 – FLUID POWER**

3 credits.

Generation, transmission, and utilization of power in systems in which the working fluid is oil or air; analysis and evaluation of pumps, motors, valves, and other fluid components; dynamic analysis and control of fluid power systems.

**Requisites:** ME 340 or equiv or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2012**M E 549 – PRODUCT DESIGN**

3 credits.

A project oriented, interdisciplinary course with an emphasis on designing competitive, quality products. The product development process is covered from problem identification through detail design and evaluation. Included among the topics covered are: idea generation and evaluation, visualization, and quality.

**Requisites:** Sr or Grad st in engr or Grad st in other college or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E/COMP SCI/I SY E 558 – INTRODUCTION TO COMPUTATIONAL GEOMETRY**

3 credits.

Introduction to fundamental geometric computations and algorithms, and their use for solving engineering and scientific problems. Computer representations of simple geometric objects and paradigms for algorithm design. Applications from areas of engineering analysis, design and manufacturing, biology, statistics, and other sciences.

**Requisites:** (COMP SCI 367 or 400) and MATH 234 or graduate or professional standing

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**M E 561 – INTERMEDIATE THERMODYNAMICS**

3 credits.

Fundamentals; phase and chemical equilibria; availability; thermodynamic relationships.

**Requisites:** ME 364 or equivalent or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 563 – INTERMEDIATE FLUID DYNAMICS**

3 credits.

Incompressible and compressible, laminar and turbulent flow of fluids. Classical and finite-difference analysis using differential and integral formulation of the continuity, momentum and energy equations. Application to ducts, plates, spheres, blades, pumps, turbines, lubrication, shockwaves, nozzles, diffusers and other mechanical engineering equipment.

**Requisites:** ME 363 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**M E 564 – HEAT TRANSFER**

3 credits.

Applications of conduction, convection, and thermal-radiation principles to combined-mode problems; analytical and numerical techniques; heat-exchanger design; thermal stresses.

**Requisites:** ME 364 or equiv or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**M E/N E 565 – POWER PLANT TECHNOLOGY**

3 credits.

Design and performance of power plants for the generation of electric power; fossil and nuclear fuels, cycle analysis, component design and performance, plant operation, control, economics and environmental impact. Advanced concepts.

**Requisites:** ME 361 or consent of instructor**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E/E P 566 – CRYOGENICS**

3 credits.

Applications of cryogenics, material properties at low temperatures, refrigeration and liquifaction systems, measurement techniques, insulation, storage and transfer of cryogenics, safety and handling.

**Requisites:** ME 361 or PHYSICS 415, ChE 320 or ME 364**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**M E/CBE 567 – SOLAR ENERGY TECHNOLOGY**

3 credits.

Radiant energy transfer and its application to solar exchangers; energy balances for solar exchangers, review of theory, economics, and practice of solar energy applications.

**Requisites:** ME 364 or CBE 326 or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 569 – APPLIED COMBUSTION**

3 credits.

Introduction to and analysis of combustion processes and combustion technology for gaseous, liquid, and solid fuels. Application to combustion engines, furnaces, fixed-bed, fluidized-bed, and suspension burning boilers.

**Requisites:** ME 364 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**M E/E M A 570 – EXPERIMENTAL MECHANICS**

3 credits.

Experimental methods for design and analysis of mechanical components, structures and materials. Electrically and optically recorded stress, strain and deformation data; computer acquisition/reduction/presentation techniques; applications to static and transient events, sensors, transducer design, NDT, fracture and residual stresses.

**Requisites:** ME 306 or EMA 214 or 303 or 304 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**M E 572 – INTERMEDIATE GAS DYNAMICS**

3 credits.

Thermodynamics and fluid dynamics of compressible gas flows with friction and heat transfer, and application to nozzles, shock tubes and propulsion devices. Wave phenomena and engine port tuning. Physics of high temperature gases and equilibrium, non-equilibrium and frozen flows.

**Requisites:** ME 363 or equiv or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**M E 573 – COMPUTATIONAL FLUID DYNAMICS**

3 credits.

Course provides an in-depth introduction to the methods and analysis techniques used in computational solutions of fluid mechanics and heat transfer problems. Model problems are used to study the interaction of physical processes and numerical techniques. Contemporary methods for boundary layers, incompressible viscous flows, and inviscid compressible flows are studied. Finite differences and finite volume techniques are emphasized.

**Requisites:** ME 363, Comp Sci 310 or 412 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E/E C E 577 – AUTOMATIC CONTROLS LABORATORY**

4 credits.

Control theory is reduced to engineering practice through the analysis and design of actual systems in the laboratory. Experiments are conducted with modern servo systems using both analog and digital control. Systems identification and modern controls design are applied to motion and torque control.

**Requisites:** ME 446 447 or ECE 332 416 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017

**M E 601 – SPECIAL TOPICS IN MECHANICAL ENGINEERING**

1-3 credits.

Such as vibrations, balancing, lubrication and wear, special manufacturing processes, automation, energy systems, etc.

**Requisites:** Senior standing consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**M E/B M E 603 – TOPICS IN BIO-MEDICAL ENGINEERING**

1-3 credits.

Various aspects of living systems of interest to the mechanical engineer, such as the mechanics of hearing and vision, cardiac and central nervous systems, artificial organs, blood flow behavior, and energy-transfer processes.

**Requisites:** Consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**M E/ I SY E 641 – DESIGN AND ANALYSIS OF MANUFACTURING SYSTEMS**

3 credits.

Covers a broad range of techniques and tools relevant to the design, analysis, development, implementation, operation and control of modern manufacturing systems. Case studies assignments using industry data will be used to elaborate the practical applications of the theoretical concepts. This course also serves as a capstone course for the MSMSE degree.

**Requisites:** Grads: MSE major or consent of instructor; Undergrads: IE 315 or 605, consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**M E/ I SY E 643 – PERFORMANCE ANALYSIS OF MANUFACTURING SYSTEMS**

3 credits.

This course examines the state of the art in the use of stochastic network theory to develop performance models of modern manufacturing systems.

**Requisites:** ISyE 624 or ISyE 632, Comp Sci 302 or Comp Sci 367 or Graduate standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**M E 699 – ADVANCED INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**M E 702 – GRADUATE COOPERATIVE EDUCATION PROGRAM**

1-2 credits.

Work experience that combines classroom theory with practical knowledge of operations to provide students with a background on which to develop and enhance a professional career. The work experience is tailored for MS students from within the U.S. as well as eligible international students.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**M E/ E M A 706 – PLATES, SHELLS AND PRESSURE VESSELS**

3 credits.

Stress and deflection analysis of structural plates and membranes under mechanical and thermal loads; variational and numerical methods; instability and vibrations; membrane shell theory; cylindrical shells; pressure vessel and piping design applications; ASME Pressure Vessel Code.

**Requisites:** ME 444 or EMA 506 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**M E/ E M A 708 – ADVANCED COMPOSITE MATERIALS**

3 credits.

Contemporary topics such as new materials; smart materials/structures/systems; fatigue; fracture; experimental techniques; nondestructive evaluation; transient, micro, three-dimensional, nonlinear, inelastic and environmental effects; manufacturing methods: repair and applications.

**Requisites:** ME/EMA 508 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**M E 714 – ADVANCED MATERIALS PROCESSING AND MANUFACTURING**

3 credits.

Discusses the systematic integration of processing-material-performance relationships in various advanced materials processing and manufacturing processes.

**Requisites:** ME 313 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2013



**M E 717 – ADVANCED POLYMER PROCESSING**

3 credits.

Advanced analysis and modeling of plastics extrusion, injection molding, and other processes; mold and equipment design; materials consideration.

**Requisites:** ME 417 or equiv or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 718 – MODELING AND SIMULATION IN POLYMER PROCESSING**

3 credits.

This course is designed to acquaint the student with computer simulation technology used for the engineering of polymer processes.

**Requisites:** ME 417 or equiv or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E/ E M A 722 – INTRODUCTION TO POLYMER RHEOLOGY**

3 credits.

Formulation of constitutive equations using embedded base vectors. Viscosity, normal stress differences, stress relaxation, elastic recoil. Polymer rheology; homogeneous strain history.

**Requisites:** MATH 320 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2012**M E/ E C E 739 – ADVANCED ROBOTICS**

3 credits.

In-depth study of advanced robotics modeling and control. Topics include kinematics, motion planning, dynamics and control of serial chain robotic manipulators. Concepts are explored through a combination of theoretical and numerical modeling techniques.

**Requisites:** ME 446 or ECE 332 or equiv; MATH 320 or 340; Familiarity with high level computational programming language such as Matlab, or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**M E 740 – ADVANCED VIBRATIONS**

3 credits.

Vibration of mechanical components subject to dynamic loads; analytical, numerical and finite element methods applied to the analysis and design of mechanical systems consisting of cables, bars, shafts, beams, frames, rings, membranes, plates and shells.

**Requisites:** ME 440 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**M E 746 – DYNAMICS OF CONTROLLED SYSTEMS**

3 credits.

Emphasis on obtaining equations which define the behavior of physical systems frequently subjected to control; mechanical processing, fluid power, and thermal systems; analytical, experimental, and computer techniques.

**Requisites:** ME 446 447, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 747 – ADVANCED COMPUTER CONTROL OF MACHINES AND PROCESSES**

3 credits.

Digital control theory, design methodology, and techniques for controller implementation on digital computers. Advanced single and multi-axis motion generation algorithms. Multiple processor control systems. Multiple objective control systems for machinery guidance and manufacturing processes. Precision control.

**Requisites:** ME 446 447, or ECE 516, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**M E 748 – OPTIMUM DESIGN OF MECHANICAL ELEMENTS AND SYSTEMS**

3 credits.

Formulation and solution of mechanical design problems by use of mathematical programming methods.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**M E 751 – MATRIX METHODS IN THE DESIGN AND ANALYSIS OF MECHANISMS**

3 credits.

An integrated approach to kinematic, static, and dynamic analysis of mechanical linkages based on the application of transformation matrices. Applications to planar and spatial mechanisms. Numerical methods of solution. Introduction to synthesis and optimization of linkages using transformation matrices.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016



**M E 753 – FRICTION, LUBRICATION AND WEAR**

3 credits.

Behavior of frictional surfaces under different types of loading. Mechanisms of heat generation and surface damage (wear, scuffing, pitting, fretting, etc.). Rheological effects. Effect of lubrication. Surface interaction in metal cutting. Design considerations.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**M E 758 – SOLID MODELING**

3 credits.

Mathematical modeling, computer representations, and algorithms for manipulation of two- and three-dimensional solid objects on a computer. Applications of solid modeling to design, representation, and analysis of mechanical parts and processes; other engineering and scientific applications of solid modeling.

**Requisites:** Comp Sci 367 or equiv, MATH 340 or equiv, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2010**M E/COMP SCI/E C E/E M A/E P 759 – HIGH PERFORMANCE COMPUTING FOR APPLICATIONS IN ENGINEERING**

3 credits.

An overview of hardware and software solutions that enable the use of advanced computing in tackling computationally intensive Engineering problems. Hands-on learning promoted through programming assignments that leverage emerging hardware architectures and use parallel computing programming languages. Students are strongly encourage to have completed COMP SCI 367 or COMP SCI 400 or to have equivalent experience.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 761 – TOPICS IN THERMODYNAMICS**

3 credits.

Thermostatic behavior of nonideal gases; equations of state, with emphasis on their empirical and statistical development, including mixture rules; more detailed study of chemical and phase equilibrium; selected applications of the foregoing; real gas processes, combustion, direct energy conversion devices.

**Requisites:** ME 561 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**M E 764 – ADVANCED HEAT TRANSFER I-CONDUCTION**

3 credits.

Analytical methods in conduction; Bessel functions, separation of variables, Laplace transforms, superposition, oscillating solutions; computer methods; finite differences, finite elements.

**Requisites:** ME 564 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E 765 – ADVANCED HEAT TRANSFER II-CONVECTION**

3 credits.

Convection and mass-transfer principles, including boundary-layer phenomena in laminar and turbulent flow; internal flows; heat transfer in high-velocity flow, numerical methods.

**Requisites:** ME 564 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2012**M E 769 – COMBUSTION PROCESSES**

3 credits.

Combustion theory and practice. Thermodynamics of combustion, flame theory, detonation, spray and droplet combustion related to various engine applications.

**Requisites:** ME 561 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**M E 770 – ADVANCED EXPERIMENTAL INSTRUMENTATION**

3 credits.

Theory and design of instruments for transient physical phenomena especially related to internal combustion engines.

**Requisites:** Cons inst basic electron course**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**M E 773 – BOUNDARY LAYER THEORY**

3 credits.

Concepts of laminar and turbulent flow. Boundary-layer approximations. Similarity and integral methods of solution. Internal flows, flow over surfaces, jets, rotating elements, and the effects of compressibility.

**Requisites:** M E 563 or Ch E 320 or equiv or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2008

**M E 774 – CHEM KINETICS OF COMBUST SYSTEMS**

3 credits.

Application of gas-phase chemical reaction rate theory to power and propulsion systems, both earthbound and airborne. Aerothermochemistry, kinetics of combustion reactions, kinetics related to air pollutant generation. Development and comparison of transition state theory, collision theory and bond-energy-bond-order method.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**M E 775 – TURBULENT HEAT AND MOMENTUM TRANSFER**

3 credits.

Stochastic methods in turbulent heat and momentum transfer; fully developed turbulence; numerical methods including model applications to boundary layers, reacting flows, mass transfer, and unsteady flows; linear and non-linear stability and transition; emphasis on applications of interest to Mechanical Engineers.

**Requisites:** ME 563 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**M E/E P 777 – VACUUM TECHNOLOGY**

3 credits.

Topics defining modern vacuum technology, including the kinetic theory of gases, conductance, pumping systems, pump technologies, pressure measurement, gas-surface interactions, sealing technologies, leak detection, and residual gas analysis will be addressed through a combination of lectures, laboratory activities, problem solving, and group discussions.

**Requisites:** Must have taken Mechanical Engineering 363 and either Chemical Biological Engineering 320 or Biomedical Engineering 320.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**M E 790 – MASTER'S RESEARCH AND THESIS**

1-9 credits.

**Requisites:** Grad st; Master's candidates only**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**M E/E M A 825 – MOLECULAR NETWORK THEORIES FOR POLYMERIC MATERIALS**

3 credits.

Stress-strain-birefringence relations for rubber-like solid derived from "Gaussian" network model. Birefringence theory from Maxwell's equations. Temporary-junction networks: constitutive equations for concentrated polymer solutions and molten polymers.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**M E 890 – PHD RESEARCH AND THESIS**

1-9 credits.

**Requisites:** Grad st, for post-master's PhD candidates who have not attained dissertator status**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**M E 903 – GRADUATE SEMINAR**

0 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**M E/CBE/CHEM/E M A 925 – RHEOLOGY RESEARCH SEMINAR**

1 credit.

Exploration of the most recent research literature on viscoelasticity, constitutive equations, non-Newtonian flow systems, fluid metering devices, kinetic theory of macromolecules, and rheooptical phenomena. Periodic reports on recent advances made by research workers in the various rheology groups on the Madison campus.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**M E 964 – SPECIAL ADVANCED TOPICS IN MECHANICAL ENGINEERING**

1-3 credits.

Advanced topics in design, manufacturing, energy, etc.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**M E 990 – DISSERTATOR RESEARCH AND THESIS**

1-9 credits.

**Requisites:** Dissertator status**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**M E 999 – ADVANCED INDEPENDENT STUDY**

1-5 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MEDICAL GENETICS (MD GENET)****MD GENET/GENETICS/ZOOLOGY 562 – HUMAN CYTOGENETICS**

2 credits.

Fundamental principles of cytogenetics and special problems of human cytogenetics for biology and medical students.

**Requisites:** GENETICS 466, 468, BIOCORE 587, or BMOLCHEM/MD GENET 721**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MD GENET/GENETICS 565 – HUMAN GENETICS**

3 credits.

Principles, problems, and methods of human genetics. Surveys aspects of medical genetics, biochemical genetics, molecular genetics, cytogenetics, quantitative genetics, and variation as applied to humans.

**Requisites:** Graduate standing, GENETICS 466, 468, or BIOCORE 587**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MD GENET/BIOCHEM/GENETICS 620 – EUKARYOTIC MOLECULAR BIOLOGY**

3 credits.

This course focuses on the basic molecular mechanisms that regulate DNA, RNA, and protein metabolism in eukaryotic organisms. This course is intended for advanced undergraduates and first year graduate students with a firm knowledge of basic biochemistry.

**Requisites:** BIOCHEM 501 or 508 or graduate standing**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MD GENET/BOTANY/GENETICS 629 – EVOLUTIONARY GENETICS**

3 credits.

Basic principles of phylogenetics, population genetics and quantitative genetics including the construction of gene trees, forces affecting the amount and distribution of genetic variation in populations, and the inheritance and evolution of multifactorial characters. Knowledge of intro calc stats or cons inst

**Requisites:** GENETICS 466 or Biocore 301 302 or equiv.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**MD GENET/GENETICS 677 – ADVANCED TOPICS IN GENETICS**

1-3 credits.

Contents vary; consideration of subjects not included in the curriculum.

**Requisites:** Graduate standing or GENETICS 466, GENETICS 468 or BIOCORE 383**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MD GENET 699 – INDEPENDENT READING**

1-3 credits.

**Requisites:** Cons inst Sr st**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**MD GENET 707 – GENETICS OF DEVELOPMENT**

3 credits.

A research-level analysis of the current status of the investigation of processes controlling differential gene activity and cellular behavior. The major emphasis is genetic. In successive years, the focus moves from the gene to the cell to the organism.

**Requisites:** GENETICS 466 or equiv, Biochem 602 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017

**MD GENET/GENETICS 708 – METHODS AND LOGIC IN GENETIC ANALYSIS**

3 credits.

Contemporary issues in genetic, developmental, cell, and molecular biology are addressed in a discussion format. Invited speakers give research lectures and reading material is taken from the primary literature. The discussion focuses on evaluating genetic approaches to biological problems.

**Requisites:** Declared in Genetics graduate program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**MD GENET/GENETICS/NURSING/PEDIAT 731 – ADVANCED CLINICAL GENETICS CONCEPTS**

3 credits.

An advanced course covering clinical genetic concepts including phenotype, genetic mechanisms, approach to diagnosis (medical, clinical and genetic testing protocols), and natural history (including management approaches). While specific for Genetic Counselor Studies students other healthcare providers are allowed if they have sufficient genetic background knowledge.

**Requisites:** Declared in Master of Genetic Counselor Studies program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MD GENET/GENETICS/POP HLTH 888 – PUBLIC HEALTH GENOMICS**

1 credit.

Public health genomics uses knowledge gained from genetic and molecular research along with a consideration of ethical, legal, and social implications (ELSI) to prevent disease and improve the health of the population. Students enrolled in this course will be provided an introduction to public health genomics through a review of fundamental principles of genetics, followed by lectures and discussions on the use of genetic information in clinical and research settings and its implications for disease management and prevention. Students will also gain an awareness of policies that guide public health and will be able to discuss current ethical, legal, and social implications of these policies. These learning objectives will be met through readings and videos, lectures, and discussions of recent journal articles and current topics in public health genomics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MD GENET 990 – RESEARCH**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2013**MD GENET 993 – SEMINAR IN GENETICS**

1 credit.

Sections deal with various aspects of genetics: *Drosophila*, maize, immunogenetics, developmental genetics, or other special topics. Students may enroll in two or more sections if they wish.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**MD GENET 999 – INDEPENDENT WORK**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2010

## MEDICAL HISTORY AND BIOETHICS (MED HIST)

**MED HIST/HIST SCI 133 – BIOLOGY AND SOCIETY, 1950 - TODAY**

3 credits.

From medical advancements to environmental crises and global food shortages, the life sciences are implicated in some of the most pressing social issues of our time. This course explores events in the history of biology from the mid-twentieth century to today, and examines how developments in this science have shaped and are shaped by society. In the first unit, we investigate the origins of the institutions, technologies, and styles of practice that characterize contemporary biology, such as the use of mice as "model organisms" for understanding human diseases. The second unit examines biological controversies such as the introduction of genetically modified plants into the food supply. The final unit asks how biological facts and theories have been and continue to be used as a source for understanding ourselves.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**MED HIST/HIST SCI 212 – BODIES, DISEASES, AND HEALERS: AN INTRODUCTION TO THE HISTORY OF MEDICINE**

3 credits.

A survey of different conceptions of how the body as a site of sickness has been understood from Antiquity to contemporary medicine. Includes consideration of the origins and evolution of public health, the changing social role of healers, and the emergence of the modern "standardized" body in health and illness.. For honors credit consent required in Hist Sci/ Hist Med 284 or consent of instructor

**Requisites:** Open to Freshmen.**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MED HIST/ENVIR ST 213 – GLOBAL ENVIRONMENTAL HEALTH: AN INTERDISCIPLINARY INTRODUCTION**

3 credits.

The course provides an introduction to the intersections of health and environment on a global scale. Exposes students to a range of problems in global environmental health, including climate change, disease ecology, and the globalization of disease.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MED HIST/HIST SCI 218 – HISTORY OF TWENTIETH CENTURY AMERICAN MEDICINE**

3 credits.

This undergraduate lecture course introduces students to the development of the modern American medical care system.

**Requisites:** Open to Fr**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**MED HIST/ANTHRO 231 – INTRODUCTION TO SOCIAL MEDICINE**

3 credits.

This interdisciplinary course will provide students with analytical tools for the critical examination of the social, cultural, political and economic determinants of health conditions and medical practice. We will pay special attention to how these factors determine how patients and providers experience and ideate disease and treatment, and how they respond to specific health care policies. The course will make emphasis on the important role that conditions of structural violence and inequality play as determinants of health conditions in a globalized world.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MED HIST/AFROAMER/HIST SCI 275 – SCIENCE, MEDICINE, AND RACE: A HISTORY**

3 credits.

Surveys the medical and scientific constructions of categories of race, placing the development of racial theories in a broad social and political context. The course will pay particular attention to the importance of racial science in slavery and colonialism.

**Requisites:** Open to Fr**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**MED HIST/HIST SCI 284 – PHYSICIAN IN HISTORY (HONORS)**

1 credit.

Honors course for students enrolled concurrently for honors in History of Science 212. Open to non-honors students with consent of instructor.

Open to Fr

**Requisites:** Con reg for honors in Hist Sci/ Hist Med 212 or cons inst.**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2015**MED HIST 286 – HONORS SEMINAR: STUDIES IN MEDICAL HISTORY**

3 credits.

Intensive exploration of issues in medical history. Emphasis on developing critical thinking about medical history through discussion of readings, written exercises, and research projects.

**Requisites:** Declared in honors program**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MED HIST/HIST SCI/RELIG ST 331 – SCIENCE, MEDICINE AND RELIGION**

3-4 credits.

Science, medicine and religion from antiquity to the present, with emphasis on Western civilization.

**Requisites:** Jr st and cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2011



**MED HIST/HIST SCI 333 – HISTORY OF MODERN BIOLOGY**

3 credits.

Survey of major developments in biology and related sciences ca. 1700-1950. Topics include morphology and embryology; evolutionary theory, ecology, and genetics; physiology and recent experimental biology.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**MED HIST/HIST SCI/HISTORY 394 – SCIENCE IN AMERICA**

3 credits.

From the colonial period to the present; emphasis on the development of scientific institutions and the influence of science on American life.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MED HIST/GEN&WS/HIST SCI 431 – CHILDBIRTH IN THE UNITED STATES**

3 credits.

American women's childbirth experiences from the colonial period to the present. Childbirth as a cultural as well as a biological event. Basic physiological information for understanding and evaluating changing approaches to pregnancy and childbirth.

**Requisites:** Women St 103 or 430 or equiv; or cons inst**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MED HIST/HIST SCI/HISTORY 504 – SOCIETY AND HEALTH CARE IN AMERICAN HISTORY**

3 credits.

Lecture-seminar. Health care in America since the colonial period; emphasis on social developments.

**Requisites:** Jr st cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**MED HIST/PHILOS 505 – JUSTICE AND HEALTH CARE**

3 credits.

Examines ethical issues in the distribution, financing, and delivery of health care (primarily in the United States). The first third of the class explores key issues in U.S. health policy and forms the empirical foundation for the rest of the class. The second third explores ongoing debates in moral and political philosophy over putative entitlements to health and health care. The last third investigates the nature, justifiability, and methods of health care rationing, including bedside rationing by doctors, and the myriad issues implicated by the near-universally shared goal of health care cost containment.

**Requisites:** Junior standing or Senior standing or Graduate standing required.**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MED HIST/HIST SCI/HISTORY 507 – HEALTH, DISEASE AND HEALING I**

3-4 credits.

Medicine in Europe from antiquity to the 18th century, investigating changes in medical ideas, institutions, practices, and organization.

**Requisites:** Jr st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**MED HIST/HIST SCI/HISTORY 508 – HEALTH, DISEASE AND HEALING II**

3-4 credits.

Medicine in Europe from the 18th century to mid-20th century, investigating changes in disease and demography, state interest in health care, the medical professions, and both scientific and alternative medical ideas.

**Requisites:** Jr st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2014**MED HIST/HIST SCI 509 – THE DEVELOPMENT OF PUBLIC HEALTH IN AMERICA**

3 credits.

Seminar. Health problems in the U.S. from the colonial period to the twentieth century; efforts made toward their solutions.

**Requisites:** Jr st cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017



**MED HIST/ENVIR ST/HIST SCI 513 – ENVIRONMENT AND HEALTH IN GLOBAL PERSPECTIVE**

3 credits.

Explores the historical relationships between environmental change and human health from the 17th through the 20th century. Topics include colonialism and disease, medical geography, urban pollution and reform, workplace hazards, environmental risk, and the anti-toxics and environmental justice movements.

**Requisites:** Jr st**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**MED HIST/PHILOS 515 – PUBLIC HEALTH ETHICS**

3 credits.

Focuses on ethical issues implicated in a population-level approach to disease prevention and health promotion. Explores prominent theoretical approaches to public health ethics and engages with several ethical tensions. Issues discussed can include: the use of coercive or intrusive public health interventions that restrict individual freedom, infringe upon individual privacy, and/or invite individual harm (or risks of harm); the justification of paternalistic measures in societies or sub-populations that seemingly indulge in pleasurable yet unhealthy behaviors; the extent to which societies should hold individuals responsible for their health conditions; the need to decide who receives life-saving treatment or vaccination when not all can; the need to choose between the identifiable victims we can save with expensive measures here and now and the more numerous unidentifiable victims we could save in the future with the same monetary investment; the trade-offs between maximizing aggregate health benefits and addressing the special needs of vulnerable social sub-groups and individuals; climate changes and intergenerational justice; ethical issues in international pharmaceutical research, and the need to establish reasonable limits to public health demands in a world where health outcomes are profoundly influenced by policies in other domains (such as transportation, housing, unemployment, and education) that generate their own ethical problems and imperatives.

**Requisites:** Junior standing or Senior standing or Graduate standing required.**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**MED HIST/AFROAMER/HIST SCI 523 – RACE, AMERICAN MEDICINE AND PUBLIC HEALTH**

3 credits.

The course will provide historical perspectives on current dilemmas facing black patients and health care professionals.

**Requisites:** Jr or Sr st**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MED HIST/GEN&WS/HIST SCI 524 – THE MEDICAL HISTORY OF SEX AND SEXUALITY**

3 credits.

Examines the changing place of medicine and scientific authority in public and private sexual lives. Highlights the role of medicine in defining appropriate sexual behavior, understanding the cause of sexual deviance, and treating sexual problems and diseases.

**Requisites:** Prev history (incl med hist hist sci) crse preferred**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2009**MED HIST 526 – MEDICAL TECHNOLOGY AND THE BODY**

3 credits.

Ethical and cultural dimensions of chemical, surgical and biological therapeutics and enhancements to the human body. Explores body-altering technologies within cultural understandings of appearance, function, perception and identity.

**Requisites:** So st or cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**MED HIST/GEN&WS/HIST SCI 531 – WOMEN AND HEALTH IN AMERICAN HISTORY**

3 credits.

Women as patients and as health professionals in America from the colonial period to the present.

**Requisites:** Jr st cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015

**MED HIST/GEN&WS/HIST SCI 532 – THE HISTORY OF THE (AMERICAN) BODY**

3 credits.

This course demonstrates that human bodies have social and cultural histories. It will highlight the social values placed on different bodies, the changing social expectations bodies create, and the role of science and medicine in creating the cultural meanings of bodies.

**Requisites:** Women St 103 or other women's studies crse required; prev hist (incl med hist hist sci) crse preferred

**Course Designation:** Breadth - Humanities  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**MED HIST/HIST SCI/HISTORY 543 – DOCTORS AND DELUSIONS: MADNESS AND MEDICINE IN THE MODERN ERA**

3 credits.

Medical approaches to mental illness from 1750 to the present. Emphasis on how tension between biomedical and socio-environmental theories about psychopathology have marked modern psychiatry. Focus on Europe and the United States with global and comparative dimensions.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Either Humanities or Social Science  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**MED HIST 545 – ETHICAL AND REGULATORY ISSUES IN CLINICAL INVESTIGATION**

1 credit.

This course will explore and examine the ethical issues central to clinical research, regulations governing clinical investigation, and the role of good clinical practice for clinical trials.

**Requisites:** None

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**MED HIST/HIST SCI 550 – MEDICAL TECHNOLOGIES IN HISTORICAL PERSPECTIVE**

3 credits.

Focusing upon the 18th- to 21st-century U. S. and building upon earlier European history, the course explores the ways that a range of technologies - e.g. stethoscopes, spirometers, x-rays, hospital design, pharmaceuticals, gene and cell therapies, telemedicine, etc. - have shaped medicine and invited social critique.

**Requisites:** Junior or Senior standing.

**Course Designation:** Breadth - Humanities  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**MED HIST/HIST SCI/POP HLTH 553 – INTERNATIONAL HEALTH AND GLOBAL SOCIETY**

3 credits.

Major problems in international health from 1750 to the present. Focus on disease epidemiology and ecology; political economy of health; migration; quarantine; race, ethnicity, and health care; international health research; cross-cultural healing; mental and maternal health; growth of international health organizations.

**Requisites:** Jr or Sr st, or cons inst

**Course Designation:** Breadth - Either Humanities or Social Science  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MED HIST/HIST SCI 554 – A HISTORY OF WESTERN DISABILITY**

3 credits.

Offers a wide range of arguments about the nature of disability, from pre-history to the 21st century. Explores the history of disability in Western thought and practice and the formulation of personhood, citizenship, and social well being.

**Requisites:** None

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**MED HIST/PHILOS 558 – ETHICAL ISSUES IN HEALTH CARE**

3 credits.

Ethical issues apparently created by new biomedical technologies, such as genetic screening, prenatal diagnosis, prolongation of life, treatment of severe birth defects, in vitro fertilization, behavior modification, psychosurgery, and transplantation.

**Requisites:** Junior standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MED HIST 559 – TOPICS IN ETHICS AND HISTORY OF MEDICINE**

3 credits.

A survey of ethical and social issues in medical ethics and history of medicine. Cooperating faculty may be drawn from philosophy, law, medical ethics, history, political science, public health, economics, education, and communication, as well as medicine and the biological sciences.

**Requisites:** Consent of instructor; enrollment may be limited depending on topic and approach

**Course Designation:** Breadth - Either Humanities or Social Science  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MED HIST/CLASSICS/HIST SCI/HISTORY/S&A PHM 561 – GREEK AND ROMAN MEDICINE AND PHARMACY**

3 credits.

Greek and Roman medicine and drug lore from the Pre-Socratics to Oribasius (c. 600 B.C. - A.D. 350), including the backgrounds of ancient Egyptian and Mesopotamian medicine.

**Requisites:** Junior standing**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**MED HIST/HIST SCI/HISTORY/MEDIEVAL/S&A PHM 562 – BYZANTINE MEDICINE AND PHARMACY**

3 credits.

Byzantine and Islamic medicine and drug lore from Oribasius to the beginnings of the Italian Renaissance (c. 350 - c. 1400 A.D.).

**Requisites:** Junior standing**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**MED HIST/HIST SCI/HISTORY 564 – DISEASE, MEDICINE AND PUBLIC HEALTH IN THE HISTORY OF LATIN AMERICA AND THE CARIBBEAN**

3 credits.

This course examines the history of illness and medical practice in Latin America and the Caribbean from the colonial era until the present. Using an interdisciplinary set of sources, students will explore the different meanings of disease, body normativity, medical practice, and ideas about public health across different historical circumstances in the region.

Include Graduate and Professional level

**Requisites:** Junior standing or above.**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**MED HIST/AGRONOMY/C&E SOC/PHILOS 565 – THE ETHICS OF MODERN BIOTECHNOLOGY**

3-4 credits.

Study of ethical issues arising from the application of modern biotechnology to microorganisms, crops, and non-human animals. Readings cover moral theory, technology studies, political philosophy, the science used in biotechnology, and current regulations governing its use.

**Requisites:** Junior standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MED HIST/ENGL/HIST SCI 599 – DIRECTED STUDY IN HEALTH AND THE HUMANITIES**

1 credit.

Offers students enrolled in the Health and the Humanities certificate an opportunity to conduct independent research under the guidance of a faculty member. It allows students who have enrolled in or completed HIST SCI/MED HIST/ENGL 525: Health and the Humanities Capstone an opportunity to go into greater depth on a topic covered in the capstone course. In consultation with a faculty member, students will design a project that builds on lessons learned or work completed as part of their capstone experience.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**MED HIST 610 – REGENERATIVE MEDICINE ETHICS AND SOCIETY**

1-3 credits.

Study of regenerative medicine and stem cell research within social, ethical and political contexts. Grad st (1 credit)

**Requisites:** Grad st and permission of instructor (3 credit).**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MED HIST/HIST SCI 668 – TOPICS IN HISTORY OF MEDICINE**

3 credits.

Upper-level special topics course in the history of medicine.

**Requisites:** Jr st**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**MED HIST 699 – INDEPENDENT STUDY IN MEDICAL HISTORY**

1-3 credits.

**Requisites:** Jr st cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**MED HIST 708 – HEALTH, DISEASE AND HEALING II**

1 credit.

Advanced readings in primary and secondary literature concerning medicine in Europe from the 18th century to mid-20th century, investigating changes in disease and demography, state interest in health care, and medical professions, and both scientific and alternative medical ideas.

**Requisites:** Grad st con reg in Med Hist 508**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2009

**MED HIST 709 – DEVELOPMENT OF PUBLIC HEALTH IN AMERICA**

1 credit.

Advanced readings in primary and secondary literature concerning public health issues and problems in America from the eighteenth to the twentieth century, and efforts made toward their solutions.

**Requisites:** Grad st con reg in Med Hist 509**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MED HIST/ENVIR ST/HIST SCI 713 – STUDIES IN ENVIRONMENT AND HEALTH**

1 credit.

Advanced readings in primary and secondary literature of environment and health, with emphasis on current historiographic issues.

**Requisites:** Grad st, or con reg in Hist Med 513 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**MED HIST 720 – HISTORICAL PERSPECTIVES IN MEDICINE**

1 credit.

(Med I elective) Lecture-seminar. Contemporary medical issues in a historical context.

**Requisites:** Open to 1st yr Med stdts in their 2nd sem**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**MED HIST 726 – MEDICAL TECHNOLOGY AND THE BODY**

1 credit.

Ethical and cultural dimensions of chemical, surgical and biological therapeutics and enhancements to the human body. Explores body-altering technologies within cultural understandings of appearance, function, perception and identity.

**Requisites:** Grad st con reg in Med Hist 526 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**MED HIST 728 – BIOMEDICAL ETHICS AND SOCIETY**

1-3 credits.

Social science perspectives on medicine with emphasis on biomedical ethics. Overview of the qualitative research methods of ethnography, life history, content, visual and narrative analysis. One of the following: ANTHRO 365, SOC 531, Pop Hlth 780 or equivs, or cons inst

**Requisites:** Grad st.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**MED HIST 730 – ETHICAL ISSUES IN MEDICINE**

1 credit.

Seminar-discussions. Problems: abortion, prenatal diagnosis, genetic screening, euthanasia, definition of death, experimentation, and patients' rights.

**Requisites:** Enrollment limited to Medical Students in their fourth year only.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MED HIST 734 – GRADUATE STUDIES IN MEDICAL ETHICS**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**MED HIST/HIST SCI 743 – DOCTORS AND DELUSIONS: MADNESS AND MEDICINE IN THE MODERN ERA**

1 credit.

Advanced readings in primary and secondary literature of the history of psychiatry, with emphasis on historiographical issues.

**Requisites:** Grad st con reg in Med Hist 543, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2011**MED HIST 753 – INTERNATIONAL HEALTH AND GLOBAL SOCIETY**

1 credit.

Advanced readings that examine major problems in modern international health. Focus on epidemiology and disease ecology; political economy of health; migration; quarantine; international health research; cross-cultural healing; mental and maternal health; growth of international health organizations.

**Requisites:** Grad st con reg in Med Hist 553**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MED HIST 890 – READING AND RESEARCH**

1-3 credits.

**Requisites:** Open to all 4th yr Med stdts (8 or 16 wks) Grad stdts of all other depts (16 wks)**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016

**MED HIST/HIST SCI 915 – SEMINAR: SCIENCE IN AMERICA**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**MED HIST/HIST SCI 919 – GRADUATE STUDIES IN MEDICAL HISTORY**

3 credits.

Three seminars analyzing the scientific and social aspects of the development of modern medicine in Europe and America; one seminar exclusively on public health.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MED HIST 999 – ADVANCED INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Grad stdts who have the Masters or equiv, or Postdoc fellows who wish to undertake an indep res project**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## MEDICAL MICROBIOLOGY AND IMMUNOLOGY (M M & I)

**M M & I 301 – PATHOGENIC BACTERIOLOGY**

2 credits.

Lectures on medically important bacteria, emphasizing the process of pathogenesis and host/parasite interactions, as well as intervention strategies, immunity and genetics as they apply to the pathogens. Open to non-majors.

**Requisites:** MMI 341 (or con reg), 2 sem intro biol w/lab or Biocore series 301-304; 1 sem org chem; or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**M M & I 302 – MEDICAL MICROBIOLOGY LABORATORY**

3 credits.

Lab covering procedures and aseptic techniques for isolation and identification of pathogenic microorganisms (bacteria, fungi, and viruses).

**Requisites:** 2 sem intro biol w/lab or Biocore series 301-304; prev or con reg in MMI 301 or equiv**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**M M & I 341 – IMMUNOLOGY**

3 credits.

Lecture, discussion. An introduction to the immune response to infectious disease. Examines the role of the host in host-parasite relationships using select microbial agents or antigens to illustrate the nonspecific and specific mechanisms of host defenses. Includes study of the nonspecific inflammatory response, the nature of microbial antigens, current concepts of antibody and cell-mediated immune reactions to infectious agents and the principles underlying the development of vaccines.

**Requisites:** HS biol, chem, 1 sem of college biol; So st; to receive cr for both MMI 341 528, MMI 341 must be completed first**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**M M & I/ENTOM/PATH-BIO/ZOOLOGY 350 – PARASITOLOGY**

3 credits.

The biology of water-borne, food-borne, soil-borne and vector-borne parasites of animals including humans. Parasites are explored in the context of transmission, associated disease, diagnosis and treatment options, and environmental, cultural and socioeconomic drivers of disease epidemiology.

**Requisites:** BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102, or BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 152 or ZOOLOGY 153, or BIOCORE 381**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017



**M M & I/PATH-BIO/ZOOLOGY 351 – PARASITOLOGY LABORATORY**

2 credits.

Optional laboratory component of Zoology/Med Micro/AHABS 350. Emphasis on experiments involving live animal parasites, including: trematodes, tapeworms, gapeworms, hookworm, ascarids, trichina, filaria, trypanosomes, coccidia, and malaria.

**Requisites:** cons reg in Zoo/MMI/AHABS 350**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2011**M M & I 410 – MEDICAL MYCOLOGY**

2 credits.

Lectures and discussions. Pathogenesis, molecular biology, host-parasite interactions, immunology, epidemiology, and diagnosis of systemic, subcutaneous, and superficial fungal infections.

**Requisites:** 2 sem intro biol w/lab or Biocore series 301-304; a crse in immunology or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**M M & I 412 – MEDICAL MYCOLOGY LABORATORY**

1 credit.

Laboratories and discussions on the ecology, sample collection, culture techniques and identification of medically important mycotic microorganisms. This is a companion lab to MMI 410. Priority given to MMI majors.

**Requisites:** MMI 301 302 and con reg in MMI 410**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2011**M M & I 460 – TECHNIQUES IN DNA SCIENCE FOR MICROBIOLOGISTS**

3 credits.

Introduction to recombinant DNA techniques commonly used in prokaryotic research and clinical Microbiology laboratories. Topics include DNA isolation, agarose gel electrophoresis, restriction enzyme digestion of DNA, ligation, transformation, Southern blotting and PCR. Students are required to work independently.

**Requisites:** Junior standing, CHEM 327 or CHEM 329 or CHEM 116,

Microbiology lecture and lab, and consent of instructor

**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2013**M M & I/MICROBIO/PATH-BIO 528 – IMMUNOLOGY**

3 credits.

Development and functions of immune response in animals; a comprehensive study of experimental humoral and cellular immunity.

**Requisites:** Two sem chem and one sem zoology or gen biology**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**M M & I/PATH-BIO 529 – IMMUNOLOGY LABORATORY**

2 credits.

Selected techniques illustrating concepts of cellular and humoral immunity as a supplement to Immunology 528. Jr or Sr st; cons inst

**Requisites:** Two sem of chem and one sem of zoology or gen biology.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2011**M M & I 554 – EMERGING INFECTIOUS DISEASES AND BIOTERRORISM**

2 credits.

Identification of analysis and solution of emerging infectious disease problems and the problems of bioterrorism.

**Requisites:** Completion of BIOLOGY/BOTANY/ZOOLOGY 152 or ZOOLOGY/BIOLOGY 101 or BIOCORE 383 and MMI 301 or Microbiology 101 or Microbiology 303; or Grad standing; or consent of instructor.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**M M & I 555 – VACCINES: PRACTICAL ISSUES FOR A GLOBAL SOCIETY**

3 credits.

Considers innovative approaches to the development and use of vaccines in the past, today and in the future, including the public health impact and the economic, ethical and safety issues associated with vaccine development, licensing and use.

**Requisites:** Senior or Graduate standing; MMI 341 or MMI 528**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**M M & I/BIOCHEM 575 – BIOLOGY OF VIRUSES**

2 credits.

Lecture-discussion. Broad coverage of animal virology taught at molecular level. Topics include virus structure, viral replication/lifecycle, aspects of pathogenesis and prevention.

**Requisites:** Biocore 301/302, or AP score of 4 or 5 and ZOOLOGY/BIOLOGY/BOTANY 151 or 152; or MMI 301**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017



**M M & I/POP HLTH 603 – CLINICAL AND PUBLIC HEALTH MICROBIOLOGY**

5 credits.

Lecture-seminar sessions. Lectures (44) describe microorganisms of clinical and public health significance. Seminar sessions (14) discuss issues and controversies of specimen receiving and processing, bacteremia, serodiagnosis of infectious agents, antimicrobial susceptibility testing, laboratory management, and novel approaches to detect infectious agents.

**Requisites:** A course in microbiology**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**M M & I/BOTANY/GENETICS/MICROBIO/PL PATH 655 – BIOLOGY AND GENETICS OF FILAMENTOUS FUNGI**

3-4 credits.

Fungal genetics, genomics, and physiology using plant pathogenic fungi and the genetic models *Aspergillus nidulans* and *Neurospora crassa* as model systems to explore the current knowledge of fungal genetics and plant/fungal interactions.

**Requisites:** Cons inst; PI Path 300 332 recommended; GENETICS 466 or equiv; general microbiol crse**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**M M & I 677 – ADVANCED TOPICS IN MEDICAL MICROBIOLOGY**

1-3 credits.

Lectures on a specialized topic of current interest in medical microbiology. Course content will vary with instructor.

**Requisites:** Grad st or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**M M & I 691 – FIRST SEMESTER SENIOR THESIS**

3 credits.

First semester independent study with the goal to do the preliminary research to write a senior thesis in Medical Microbiology Immunology.

**Requisites:** Senior Standing; Consent of Instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**M M & I 692 – SECOND SEMESTER SENIOR THESIS**

3 credits.

Second semester independent study with the goal to complete a senior thesis in Medical Microbiology Immunology.

**Requisites:** Senior Standing; Consent of Instructor, MMI 691**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**M M & I 696 – CRITICAL THINKING IN MEDICAL MICROBIOLOGY AND IMMUNOLOGY**

3 credits.

Students will present assigned research papers from journals for critical evaluation by the class. In addition, students will write critiques of each paper evaluating the paper's introduction, methods, results, and discussion sections.

**Requisites:** MMI 301 341, or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**M M & I 699 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**M M & I 701 – INFECTION AND IMMUNITY I**

4 credits.

Part I of an integrated course of basic microbiology, immunology, and infectious diseases; includes bacteriology, virology, mycology, parasitology, basic and clinical immunology.

**Requisites:** 2nd yr Med st only**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2008**M M & I 704 – INFECTIOUS DISEASES OF HUMAN BEINGS**

3 credits.

Pathogenesis, clinical descriptions, and prevention. Primarily for Physician Assistant, Pharmacy, and Nursing students.

**Requisites:** A course in microbiology**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**M M & I/ANATOMY 710 – CELL STRUCTURE AND FUNCTION**

3 credits.

An interdisciplinary course that highlights structure and function at the cellular level as related to health and disease states.

**Requisites:** Declared in Medical program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**M M & I/PATH-BIO 720 – ADVANCED IMMUNOLOGY: CRITICAL THINKING**

3 credits.

Advanced course focusing on current questions in immunological research. Course explores immunology topics including genetic, cellular, and molecular features of immune system fundamental to regulation of immune responses. Course format: discussion of research articles and exposure to research seminars.

**Requisites:** MMI/AHABS/Bact 528 or equiv

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**M M & I/MICROBIO 740 – MECHANISMS OF MICROBIAL PATHOGENESIS**

3 credits.

Lecture-discussion. Host-pathogen relationships in microbial diseases. Entry level course for infectious diseases sequence (see Med Micro 760, 790).

**Requisites:** Cons inst, MMI 301 or equiv a course in immunology

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**M M & I/PATH-BIO 750 – HOST-PARASITE RELATIONSHIPS IN VERTEBRATE VIRAL DISEASE**

3 credits.

Lecture. Detailed study of the pathogenesis of vertebrate viral disease, stressing viral invasion, dissemination, mechanisms of disease production and resistance, and transmission.

**Requisites:** Oncol/MICROBIO/ONCOLOGY/PL PATH 640 or Path-Bio 513; and Microbio/MMI/Path-Bio 528; or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**M M & I/MED SC-M 755 – FOUNDATIONS OF MEDICINE 2**

3 credits.

Addresses the basic principles of medical microbiology and the infectious diseases involving the cardiovascular, respiratory, renal and dermatologic systems and related any-microbial therapies.

**Requisites:** Standing as med 2 student (completion of year 1 Medical School curriculum)

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**M M & I/PATH-BIO 773 – EUKARYOTIC MICROBIAL PATHOGENESIS**

3 credits.

An advanced course focusing on the molecular, cellular and biochemical mechanisms found in fungal and protozoan pathogens of humans. A combination of lectures and student presentations will be employed. MMI 740 PATH 750 recommended

**Requisites:** Cons inst.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**M M & I/MICROBIO/PATH-BIO 790 – IMMUNOLOGY OF INFECTIOUS DISEASE**

3 credits.

Immunobiology and immunogenetics of resistance to infectious disease agents of man and animals; immunoregulatory mechanisms associated with evasion of host immunity.

**Requisites:** MMI 720 or equiv, MMI 740 or equiv, cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**M M & I 900 – JOURNAL CLUB**

1 credit.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2012

**M M & I 901 – SEMINAR**

1 credit.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**M M & I/BIOCHEM/BMOLCHEM/MICROBIO 914 – SEMINAR-MOLECULAR BIOSCIENCES (ADVANCED)**

1 credit.

During the fall semester, molecular biosciences trainees who have not achieved dissertator status will present seminars based primarily on literature related to their projects. During the spring semester, molecular biosciences trainees with dissertator status will present seminars based upon their own research.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**M M & I 990 – RESEARCH AND THESIS**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MEDICAL PHYSICS (MED PHYS)****MED PHYS/PHYSICS 265 – INTRODUCTION TO MEDICAL PHYSICS**

2 credits.

Primarily for premeds and other students in the medical and biological sciences. Applications of physics to medicine and medical instrumentation. Topics: biomechanics, sound and hearing, pressure and motion of fluids, heat and temperature, electricity and magnetism in the body, optics and the eye, biological effects of light, use of ionizing radiation in diagnosis and therapy, radiation safety, medical instrumentation. Two lectures with demonstrations per week.

**Requisites:** A yr crse of college level intro physics**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MED PHYS/H ONCOL 410 – RADIOBIOLOGY**

2-3 credits.

Effects of ionizing radiations of living cells and organisms, including physical, chemical, and physiological bases of radiation cytotoxicity, mutagenicity, and carcinogenesis; lecture and lab.

**Requisites:** None**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**MED PHYS/B M E/H ONCOL/PHYSICS 501 – RADIOLOGICAL PHYSICS AND DOSIMETRY**

3 credits.

Interactions and energy deposition by ionizing radiation in matter; concepts, quantities and units in radiological physics; principles and methods of radiation dosimetry.

**Requisites:** Calculus and modern physics**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MED PHYS/N E 506 – MONTE CARLO RADIATION TRANSPORT**

3 credits.

Use of Monte Carlo technique for applications in nuclear engineering and medical physics. Major theory of Monte Carlo neutral particle transport is discussed. Standard Monte Carlo transport software is used for exercises and projects. Major emphasis is on analysis of real-world problems.

**Requisites:** NEEP 305 or equiv and one of NEEP 405, 408, Med Phys 501 or 569, or consent of instructor**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MED PHYS/B M E 530 – MEDICAL IMAGING SYSTEMS**

3 credits.

2D Fourier image representation, sampling, and image filtering with applications in medical imaging. Principles of operation, impulse responses, signal-to-noise, resolution and design tradeoffs in projection radiography, tomography, nuclear medicine, ultrasound, and magnetic resonance imaging. Knowledge of linear signals systems, convolution, basic probability, ID Fourier Transforms

**Requisites:** ECE 330 or Med Phys 473 or equiv or cons inst.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MED PHYS/B M E 535 – INTRODUCTION TO ENERGY-TISSUE INTERACTIONS**

3 credits.

Explore physical interactions between thermal, electromagnetic and acoustic energies and biological tissues with emphasis on therapeutic medical applications.

**Requisites:** Graduate student or senior level in Engineering or Medical Physics or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**MED PHYS/I SY E 559 – PATIENT SAFETY AND ERROR REDUCTION IN HEALTHCARE**

2 credits.

Techniques for evaluating and reducing risks in medical procedures, including probabilistic risk assessment methods, failure mode and effects analysis, human factors analysis, and quality management. Discussions of patient safety standards, recommendations from agencies, and continual quality improvement.

**Requisites:** Jr st or cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MED PHYS/PHYSICS 563 – RADIONUCLIDES IN MEDICINE AND BIOLOGY**

2-3 credits.

Physical principles of radioisotopes used in medicine and biology and operation of related equipment; lecture and lab.

**Requisites:** PHYSICS 205, PHYSICS 241, or PHYSICS 249, or Graduate Standing**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MED PHYS/B M E 566 – PHYSICS OF RADIOTHERAPY**

4 credits.

Ionizing radiation use in radiation therapy to cause controlled biological effects in cancer patients. Physics of the interaction of the various radiation modalities with body-equivalent materials, and physical aspects of clinical applications; lecture and lab.

**Requisites:** B M E/H ONCOL/MED PHYS/PHYSICS/B M E/H ONCOL/MED PHYS 501**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MED PHYS/B M E 567 – THE PHYSICS OF DIAGNOSTIC RADIOLOGY**

4 credits.

Physics of x-ray diagnostic procedures and equipment, radiation safety, general imaging considerations; lecture and lab.

**Requisites:** Modern physics, calculus, and Fourier analysis, or consent of instructor**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MED PHYS/B M E 568 – MAGNETIC RESONANCE IMAGING (MRI)**

3 credits.

Physics and technology of magnetic resonance imaging (MRI), emphasizing techniques employed in medical diagnostic imaging. Major topics: physics of MR, pulse sequences, hardware, imaging techniques, artifacts, and spectroscopic localization. Crses in other med imaging tech e.g. Med Phys 567, crses in signal processing, or Med Phys 573 recommended

**Requisites:** Crses in mod physics calc, incl Fourier Anal, req.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**MED PHYS/N E 569 – HEALTH PHYSICS AND BIOLOGICAL EFFECTS**

3-4 credits.

Physical and biological aspects of the use of ionizing radiation in industrial and academic institutions; physical principles underlying shielding instrumentation, waste disposal; biological effects of low levels of ionizing radiation; lecture and lab.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MED PHYS 570 – ADVANCED BRACHYTHERAPY PHYSICS**

3 credits.

The use of radioactive sources for radiotherapy including: materials used, source construction dosimetry theory and practical application, dosimetric systems, localization and reconstruction. The course covers low dose rate, high dose rate and permanently placed applications.

**Requisites:** B M E/H ONCOL/MED PHYS/PHYSICS/B M E/H ONCOL/MED PHYS 501 and B M E/MED PHYS/B M E 566**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**MED PHYS 571 – ADVANCED EXTERNAL RADIATION ONCOLOGY PHYSICS**

3 credits.

Physics of ionizing radiation therapy with emphasis on external beam dosimetry and treatment planning.

**Requisites:** B M E/H ONCOL/MED PHYS/PHYSICS/B M E/H ONCOL/MED PHYS 501 and B M E/MED PHYS/B M E 566**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2011

**MED PHYS 572 – ADVANCED RADIATION TREATMENT PLANNING**

3 credits.

Physics of clinical, computer-based radiotherapy planning is taught. Topics include dose algorithms, measurement data, commissioning, contouring and volume definition, beam placement, modifiers and apertures and plan evaluation. Forward based and inverse planning (including IMRT optimization) are taught.

**Requisites:** Med Phys 501 and Med Phys 566**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MED PHYS/B M E 573 – MEDICAL IMAGE SCIENCE: MATHEMATICAL AND CONCEPTUAL FOUNDATIONS**

3 credits.

The conceptual and mathematical foundations of medical imaging, including both deterministic and stochastic aspects.

**Requisites:** 1 yr each of undergrad physics calc or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MED PHYS/B M E 574 – IMAGINE IN MEDICINE: APPLICATIONS**

3 credits.

Continuation of 573, with application of concepts to practical medical imaging problems and emerging quantitative imaging techniques.

**Requisites:** B M E/MED PHYS/B M E 573**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**MED PHYS/B M E 575 – DIAGNOSTIC ULTRASOUND PHYSICS**

2-3 credits.

Propagation of ultrasonic waves in biological tissues; principles of ultrasonic measuring and imaging instrumentation; design and use of currently available tools for performance evaluation of diagnostic instrumentation; biological effects of ultrasound.

**Requisites:** Modern physics, calculus Fourier analysis or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**MED PHYS 577 – PRINCIPLES OF X-RAY COMPUTED TOMOGRAPHY**

3 credits.

Provides a basic foundation of x-ray computed tomography (CT) for those who are interested in the principles and applications of CT in Medical Physics. Focuses on the physics of CT, system design, image artifacts, and recent advances in CT techniques.

**Requisites:** Grad st; Modern physics, calculus, and Fourier analysis, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**MED PHYS/B M E 578 – NON-IONIZING DIAGNOSTIC IMAGING**

3 credits.

This is a graduate level core course covering the physics associated with magnetic resonance imaging and diagnostic ultrasound emphasizing techniques employed in medical diagnostic imaging. Major MRI topics include: physics of MR, pulse sequences, hardware, imaging techniques, artifacts, and spectroscopic localization. Ultrasound based topics covered include: propagation of ultrasonic waves in biological tissues, principles of ultrasonic measuring and imaging instrumentation, design and use of currently available tools for performance evaluation of diagnostic instrumentation, and biological effects of ultrasound. At the completion of this course, students should have an understanding of the technical and scientific details of modern non-ionizing medical magnetic resonance and ultrasound devices and their use in diagnosing disease. Medical Physics 573 ("Imaging in Medicine") is useful but not a specific prerequisite.

**Requisites:** MATH 222, PHYSICS 202**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MED PHYS/B M E/PHMCOL-M/PHYSICS/RADIOL 619 – MICROSCOPY OF LIFE**

3 credits.

Survey of state of the art microscopic, cellular and molecular imaging techniques, beginning with subcellular microscopy and finishing with whole animal imaging.

**Requisites:** PHYSICS 104, 202, 208, or 248 or MED PHYS/PHYSICS/ MED PHYS 265**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017



**MED PHYS/B M E/CHEM 650 – BIOLOGICAL OPTICAL MICROSCOPY**  
3 credits.

This course for graduate students will cover several aspects of state of the art biological and biophysical imaging. We will begin with an overview of geometrical optics and optical and fluorescence microscopy, with an emphasis on instrumentation. The bulk of the course will focus on advanced imaging techniques including nonlinear optical processes (multi-photon excitation, second harmonic generation, and stimulated Raman processes) and emerging super-resolution methods. Special emphasis will be given to current imaging literature and experimental design.

**Requisites:** Senior or Graduate standing, and CHEM 104 or 109 or 116 and, PHYSICS 104 or 202 or 208

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**MED PHYS/NTP 651 – METHODS FOR NEUROIMAGING RESEARCH**  
3 credits.

Provides a practical foundation for neuroimaging research studies with statistical image analysis. Specific imaging methods include functional BOLD MRI, structural MRI morphometry, and diffusion tensor imaging. Lectures and associated in-class computer exercises will cover the physics and methods of image acquisition, steps and tools for image analyses, the basis for statistical image analyses and interpretation of the results.

**Requisites:** Junior standing

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MED PHYS 661 – RAD LAB - RADIOTHERAPY PHYSICS**  
2 credits.

**Requisites:** B M E/MED PHYS/B M E 566

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**MED PHYS 662 – RAD LAB - DIAGNOSTIC RADIOLOGICAL PHYSICS**  
1 credit.

**Requisites:** B M E/MED PHYS/B M E 567

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**MED PHYS 663 – RAD LAB - NUCLEAR MEDICINE PHYSICS**  
1 credit.

**Requisites:** MED PHYS/PHYSICS 463

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**MED PHYS 664 – RAD LAB - HEALTH PHYSICS**  
1 credit.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MED PHYS 665 – RAD LAB: CT, MRI, AND DSA PHYSICS**  
1 credit.

**Requisites:** B M E/MED PHYS/B M E 567

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MED PHYS 666 – RAD LAB - MEDICAL ULTRASOUND PHYSICS**  
1 credit.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MED PHYS 671 – SELECTED TOPICS IN MEDICAL PHYSICS**  
1-3 credits.

Various subjects of interest to medical physics faculty and students.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MED PHYS 679 – RADIATION PHYSICS METROLOGY**  
3 credits.

Metrology, the science of measurement, is a critical component of medical physics. Topics covered: measurement statistics, determination of uncertainty, characteristics of ionization chambers, electrometers and other ionizing radiation measurement devices. Effects of instrumentation on clinical measurements.

**Requisites:** Med Phys 501; Med Phys 566 567 recommended

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MED PHYS 699 – INDEPENDENT READING OR RESEARCH**  
1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017



**MED PHYS 701 – ETHICS AND THE RESPONSIBLE CONDUCT OF RESEARCH AND PRACTICE OF MEDICAL PHYSICS**

1 credit.

This course will introduce the concepts of ethics in the daily practice of medical physics and other scientific disciplines and provide tools for identifying resources. Special emphasis will be placed in how these principles have to be applied to ensure the confidentiality of the patients, the safety of the research subjects (human and animals), differentiation between ethical and legal issues, as well as the understanding of the principles that deal with authorships, intellectual property in the academic- and industry- based environment. This will be a 1 credit course (16hs). It will consist of 8 weekly meetings (2 hs each session).

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MED PHYS/B M E 710 – ADVANCES IN MEDICAL MAGNETIC RESONANCE**

3 credits.

This course studies in some depth the theory and applications of magnetic resonance (MR) in medicine. It provides the necessary theoretical background to understand advanced MR techniques including magnetic resonance imaging (MRI).

**Requisites:** B M E/MED PHYS/B M E 568**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MED PHYS 719 – MULTI-MODALITY MOLECULAR IMAGING IN LIVING SUBJECTS**

3 credits.

Gives and overview of all major areas in molecular imaging, based on each imaging modality. Additional topics include, but are not limited to, role of molecular imaging in stem cell research, molecular imaging with nanoparticles, theranostics, molecular imaging in drug development, optical imaging and its clinical applications, reporter gene imaging, imaging of apoptosis, PET imaging of cancer, imaging protein-protein interactions.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2013**MED PHYS/B M E/PHYSICS 775 – ADVANCED ULTRASOUND PHYSICS**

3 credits.

Foundations of acoustic wave equations, diffraction phenomena and acoustic beam formation, models for acoustic scattering from discrete structures and inhomogeneous continua, speckle statistics including speckle correlation, applications of these topics in medical imaging.

**Requisites:** Med Phys 575, PHYSICS 311, 322, 325, MATH 234, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**MED PHYS/H ONCOL 812 – RADIATION MEDICINE PHYSICS CLERKSHIP**

2 credits.

Allows students to observe and participate in the application of medical physics principles in the clinical setting. Under supervision, students will perform the functions of a clinical medical physicist in radiation medicine.

**Requisites:** B M E/H ONCOL/MED PHYS/PHYSICS/B M E/H ONCOL/MED PHYS 501 and B M E/MED PHYS/B M E 566**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2008**MED PHYS 900 – JOURNAL CLUB AND SEMINAR**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MED PHYS 990 – RESEARCH**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## MEDICAL SCIENCES - MEDICAL SCHOOL (MED SC-M)

**MED SC-M 699 – DIRECTED STUDY**

1-9 credits.

**Requisites:** Open only to Med stdts**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MED SC-M 703 – INTEGRATED HEMATOLOGY SYSTEM**

3 credits.

Integrated hematology pathophysiology integrated with pharmacology, nutrition, and pathology.

**Requisites:** Open to Grad stdts by cons inst coordinator**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017

**MED SC-M 706 – INTEGRATED CARDIOVASCULAR SYSTEM**

4 credits.

Cardiovascular pathophysiology integrated with pharmacology, nutrition, pathology, public health and ethics.

**Requisites:** Open to Grad stdts by cons inst coordinator

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MED SC-M 707 – INTEGRATED GASTROINTESTINAL & HEPATIC SYSTEMS**

3 credits.

Combines pathophysiology, pathology, pharmacology, neoplasia and nutrition.

**Requisites:** Open to Grad stdts by cons inst and coordinator

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MED SC-M 709 – INTEGRATED RENAL SYSTEM**

3 credits.

Integrated renal pathophysiology integrated with pharmacology, nutrition, pathology, public health and ethics.

**Requisites:** Open to Grad stdts by cons inst and coordinator

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**MED SC-M 711 – INTEGRATED ENDOCRINOLOGY AND REPRODUCTIVE HEALTH**

3 credits.

Combines pathophysiology, pathology, pharmacology, neoplasia and nutrition.

**Requisites:** Open to Grad stdts by cons inst and coordinator

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MED SC-M 715 – INTEGRATED RESPIRATORY SYSTEM**

4 credits.

Respiratory pathophysiology integrated with pharmacology, nutrition, pathology, public health and ethics.

**Requisites:** Open to Grad students by cons inst and coordinator

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MED SC-M 717 – PHARMACOLOGY I**

4 credits.

Lectures and discussions. For students in medicine.

**Requisites:** Completion of the 1st year medical school curriculum

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**MED SC-M/POP HLTH 719 – SEMINAR-CONTEMPORARY ISSUES IN HEALTH CARE**

1-2 credits.

Lecture. Social, economic and political aspects of health care delivery, including health needs and demands, doctor shortage, health team, models of delivering care, health planning, cost and financing, quality of care and international systems.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**MED SC-M 721 – NEOPLASTIC DISEASES**

2 credits.

**Requisites:** Open to Grad stdts by cons inst coordinator

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**MED SC-M 724 – INTEGRATED DERMATOLOGY**

1 credit.

Addresses the anatomy and function of the skin and offers an overview of diseases that impact the skin.

**Requisites:** Standing as med 1 student

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**MED SC-M 726 – PSYCHIATRY: INTERPERSONAL AND BIOPSYCHOSOCIAL ASPECTS**

1 credit.

Advances understanding of medical models that integrate disease, health and patients in a systems manner. Examines common psychiatric disorders and their occurrence. Demonstrates usefulness of population and public health perspectives and focuses on developing advanced skills in interviewing psychiatric patients.

**Requisites:** Med Sc-M 716

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**MED SC-M 727 – PHARMACOLOGY II**

2 credits.

Continuation of 717.

**Requisites:** All basic sci crses taught in the 1st yr and the 1st semester of the 2nd yr of the Med Schl curriculum

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**MED SC-M 728 – INTEGRATED MUSCULOSKELETAL SYSTEM**

2 credits.

Provides an understanding of the musculoskeletal system's function and response to injury and disease.

**Requisites:** Standing as a year 2 medical student (completion of year 1 medical school curriculum)

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MED SC-M 729 – INTEGRATED NEUROSCIENCES**

3 credits.

Describes the normal and abnormal function of the nervous system, including changes in cognition, emotion and behavior.

**Requisites:** Standing as a year 2 medical student (completion of year 1 medical school curriculum)

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MED SC-M 731 – MEDICAL NEUROANATOMY**

3 credits.

multidisciplinary basic science of medicine course that covers the development, structure, and function of the nervous system with the purpose of preparing future physicians to understand and diagnose common neurological syndromes. The course covers general principles of the development, connectivity, and blood supply of the central and peripheral nervous system. Course sessions will cover both regions and functions of the nervous system.

**Requisites:** Open to Graduate students and by consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**MED SC-M 733 – COMPLEMENTARY MEDICINE: IMPLICATIONS FOR CLINICAL PRACTICE**

1 credit.

This elective course will cover the fundamentals of psychoneuroimmunology; meditation; traditional chinese medicine; botanical medicine; ayurveda; homeopathy; massage, therapeutic touch and reiki; chiropractic, osteopathic and cranial sacral therapy; art therapy; integration of complementary medicine into a mainstream practice.

**Requisites:** 1st or 2nd yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MED SC-M 734 – CLINICAL NUTRITION IN HUMAN HEALTH AND DISEASE**

1 credit.

The course covers the following topics: Nutrition assessment and support; malnutrition; eating disorders; nutritional consequences of alcoholism; obesity; nutrition across the life cycle; nutrition of chronic diseases, and nutrition fads.

**Requisites:** Must be Grad stdt or Med stdt

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**MED SC-M 735 – MEDICAL SPANISH FOR HEALTH SCIENCE STUDENTS**

1 credit.

This course is offered for health science students with beginning or intermediate Spanish proficiency who want to acquire medical interviewing, physical examination and cultural competency skills to enhance their ability to provide care for Spanish-speaking patients and their families.

**Requisites:** Med, nursing, pharm, vet med stdts who have had prev Spanish lang instruction

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MED SC-M 740 – OVERVIEW OF RURAL HEALTH**

1 credit.

This elective course will introduce students to key concepts of rural medicine and especially of rural Wisconsin.

**Requisites:** Health professional or related program enrollment with course director permission

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MED SC-M 747 – PERSUASION: THE ART OF EFFECTIVELY CONVEYING HEALTH INFORMATION**

1 credit.

Effectively presenting knowledge is an important skill in the health sciences, both to those in our fields as well as those in other arenas. Learn how to write clear, engaging, and visually striking slides conveying medical information as well as interact well with those slides. Become more comfortable with speaking about health sciences topics, whether your listeners are professional colleagues or general audiences. Learn how to facilitate health discussions in a manner which is valuable for all participants. This course combines discussion with professionally fulfilling presentations by the participants to try out their skills and receive valuable, supportive feedback from their colleagues. This course ties in deeply with those in health sciences community engagement and advocacy training "threads" and is essential for anyone looking to influence population health. Become an effective and engaging presenter through this course!

**Requisites:** Currently enrolled in a health professions program (MD, PA, PT, RN, Pharmacy, Genetic Counseling, MPH, OT)

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MED SC-M 751 – FOUNDATIONS OF MEDICINE 1**

3 credits.

Basic concepts in several disciplines that underlie the practice of medicine. Themes include cellular injury, tissue repair, inflammation, neoplasia, pharmacodynamics, drug disposition, peripheral nervous system pharmacology, life cycle nutrition and basic concepts regarding obesity.

**Requisites:** Standing as med 2 student (completion of year 1 Medical School curriculum)

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**MED SC-M/M M & I 755 – FOUNDATIONS OF MEDICINE 2**

3 credits.

Addresses the basic principles of medical microbiology and the infectious diseases involving the cardiovascular, respiratory, renal and dermatologic systems and related antimicrobial therapies.

**Requisites:** Standing as med 2 student (completion of year 1 Medical School curriculum)

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MED SC-M 757 – FOUNDATIONS OF MEDICINE 3**

3 credits.

Addresses the basic principles of virology and parasitology and the infectious diseases involving the gastrointestinal, musculoskeletal and central nervous systems and related antimicrobial therapies.

**Requisites:** Med Micro 701

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MED SC-M 759 – FOUNDATIONS OF MEDICINE 4**

1 credit.

Addresses several advanced concepts in medicine through themes that incorporate multisystem perspectives.

**Requisites:** Standing as a year 2 med student (completion of year 1 medical school curriculum)

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MED SC-M/LAW/NURSING 768 – CONSUMER HEALTH ADVOCACY AND PATIENT-CENTERED CARE CLINICAL**

1-7 credits.

Interdisciplinary health advocacy clinical supervised by diverse professional staff. Provide broad advocacy to patients with life-threatening and serious chronic illnesses. Advocacy topics include: medical decision-making, insurance, medical debt, disability issues. Weekly discussions of patient cases and related guest lectures.

**Requisites:** Graduate or Professional standing or acceptance in Capstone Certificate in Consumer Health Advocacy

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MED SC-M/LAW/NURSING 769 – CONSUMER ISSUES IN HEALTH CARE**

1-3 credits.

Explores consumer issues in health care delivery in interdisciplinary discussion-based format. Covers current delivery system, expenditures/finance, managed care/insurance, barriers to access, reform, and other select topics. Ideal for future healthcare providers and others interested in patients' experiences.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**MED SC-M 770 – PATIENTS, PROFESSIONALISM AND PUBLIC HEALTH**

4 credits.

Introduces students to the concepts of health and disease, which vary from patient to patient and through time. This includes health from a population standpoint, with an introduction to basic public health concepts as well as how physicians may positively impact both individual and population level health. Woven within that framework are introductions to key aspects of professionalism, patient-centered history-taking, and core communication skills.

**Requisites:** Declared in Medical program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MED SC-M 771 – BODY IN BALANCE**

11 credits.

Organized around physiological themes, the course includes material related to the cardiovascular system, hematology, nephrology, and pulmonology to present an integrated picture of how these systems function together to maintain homeostasis. In addition, there is significant content from other competency domains such as public health, ethics, evidence-based medicine, patient care/communication and clinical skills.

**Requisites:** Declared in Medical program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MED SC-M 772 – FOOD, FASTING & FITNESS**

9 credits.

Food, Fasting and Fitness is organized around biomedical themes including nutrients, the digestive system, the biochemistry and endocrine control of metabolism, exercise and fitness and the removal of waste products and toxins to present an integrated picture of how these systems function together to maintain homeostasis. It also integrates developmental content from Threads including Communication, Patient Care, Ethics, Health Information Technology, Public Health, Professionalism, Quality Improvement, Patient Safety and Scientific Inquiry.

**Requisites:** Declared in Medical program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MED SC-M 773 – HUMAN FAMILY TREE**

8 credits.

The course content focuses on molecular, genetic, embryologic, hormonal, anatomical and physiological factors that govern fertility, cell growth, fetal development, and pregnancy as well as the congenital anomalies that can occur when those processes are aberrant. It encompasses the full life-cycle spectrum including childhood growth and development, young adulthood/puberty, issues affecting adolescents and young adults, genetic basis of human disease, reproductive health, menopause, aging, unregulated cell growth (cancer) and end of life issues. In addition, there is significant content from other competency domains such as public health, advocacy, ethics, patient care/communication and clinical skills.

**Requisites:** Declared in Medical program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MED SC-M 774 – INVADERS AND DEFENSE**

9 credits.

An integrated examination of how the immune system interacts with foreign microbes, the normal micro biome, and self tissues, both normal and malignant. It examines inflammation and the impacts of this type of response on normal cells, in wound healing, infectious disease, and inflammatory diseases including autoimmune disease and dermatologic conditions, including neoplasia of the skin. It covers the development of adaptive immune responses from vaccination, infectious processes, and organ transplantation. It covers the basic biology and pathophysiology of "invaders" of the human body, including viruses, fungi, and bacteria, along with their clinical diagnosis and therapy. Lastly, the course addresses malignant transformation of the immune effector cells themselves, including cancers of mature lymphoid cells and bone marrow derived malignancies.

**Requisites:** Declared in Medical program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MED SC-M 775 – MIND & MOTION**

10 credits.

Mind Motion is a 10-week course that introduces students to core basic science, pathophysiologic, and diagnostic principles requisite for the care and treatment of patients with musculoskeletal, neurologic, and psychiatric presentations and disorders. Basic science concepts include those from the traditional disciplines of cell biology, histology, biochemistry, anatomy, embryology, neuroscience, and behavioral science. There is regular integration of these topics with their pathologic and pathophysiologic counterparts. In addition, there will be integration of content related to other curricular domains, or "threads", that include Patient Care Communication, Evidence Based Medicine, Health Information Technology, Quality Improvement Patient Safety, Professionalism, Scientific Inquiry and Public Health.

**Requisites:** Declared in Medical program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017



**MED SC-M 800 – PATIENT, DOCTOR AND SOCIETY 1**

3 credits.

First year first semester students spend one half-day every other week in a clinical setting with a primary care physician. In each clinical session, the student will accompany the physician in seeing as many patients as feasible and appropriate. Learning activities for each clinic session will focus on a clinical skill as well as various features of primary care.

**Requisites:** 1st yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**MED SC-M 801 – PATIENT, DOCTOR AND SOCIETY 2**

3 credits.

A second semester first year course which covers the basic topic areas of (1) medical ethics and the systems issues in health care, (2) the patient and family, (3) the impact of illness, and (4) the doctor-patient relationship.

**Requisites:** Declared in Medical program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**MED SC-M 806 – PATIENT, DOCTOR AND SOCIETY 3**

3 credits.

In large groups, small groups, and visits to primary care clinics, students will continue to acquire clinical knowledge and skills pertaining to taking histories, performing physical examinations, interpreting medical literature, considering ethical dilemmas, and understanding the US health care system.

**Requisites:** Med Sci-M 800, 804**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MED SC-M 807 – PATIENT, DOCTOR AND SOCIETY 4**

3 credits.

In large groups, small groups, and visits to primary care clinics, students will continue to acquire clinical knowledge and skills pertaining to taking histories, performing physical examinations, interpreting medical literature, considering ethical dilemmas, and understanding the US health care system.

**Requisites:** Med Sci-M 800, 804, 806**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MED SC-M 810 – CARE ACROSS THE LIFE CYCLE**

12 credits.

Promotes the student's development of clinical knowledge and skills necessary to care for patients and populations across the lifespan. Students will gain practical experience in a variety of inpatient and outpatient settings including pediatrics, obstetrics and geriatrics. There is regular integration of clinical topics with the relevant physiology and pathophysiology and other basic science components. In addition, there will be integration of content related to other curricular domains, or "threads", that include Patient Care Communication, Evidence Based Medicine, Health Information Technology, Quality Improvement Patient Safety, Professionalism, Scientific Inquiry and Public Health.

**Requisites:** Declared in Medical program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**MED SC-M 811 – CHRONIC AND PREVENTIVE CARE**

12 credits.

A Phase 2 course in the MD program that uniquely positions students to identify the roles of physicians, interdisciplinary providers, health care systems, and communities in screening, treating, and preventing common, chronic conditions. Activities are centered on health promotion, outpatient-based chronic disease management, and community health. Students' clinical experiences will occur in primary care, behavioral health, and other ambulatory and community-based settings that focus on chronic disease management. Continuity will occur in primary care clinics over the 12 weeks as well as by student participation in a longitudinal community health engagement project.

**Requisites:** Declared in Medical program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No



**MED SC-M 812 – ACUTE CARE**

12 credits.

A Phase 2 course that is centered on assessing patients with urgent medical conditions, providing acute inpatient care, and transitioning patients to other care settings or home under the care of other professionals. Activities emphasize providing acute care in inpatient and outpatient urgent care settings as well as on the inpatient wards, and developing acute management plans and subsequent transition of care plans. Clinical experiences will be in acute care settings such as the emergency department and inpatient medicine (both general and subspecialty), psychiatry, and neurology. The block builds upon the fundamental science concepts introduced in Body in Balance and Mind and Motion during Phase 1, including Ohm's Law, acid-base balance, and volume regulation. Structured educational sessions will proceed through the 12-week block following an organ system-based approach and employ varied modalities including podcasts, real-time case discussions, webcasts, independent readings, and online nationally supported modules. All students will complete an integrated patient-centered experience by participating in the care of a patient from an urgent admission through inpatient treatment and discharge. Assessment will include faculty global ratings of performance, written projects, clinical simulation, task completion, National Board of Medical Examiners (NBME) shelf exam, and an Objective Structured Clinical Examination (OSCE).

**Requisites:** Declared in Medical program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**MED SC-M 813 – SURGICAL AND PROCEDURAL CARE**

12 credits.

A phase 2 course in the MD program that is focused on the care of adults and children undergoing an operation or procedure, including the perioperative preparation, operative care, and post-operative cares for core clinical conditions in the specialties of anesthesia, neurosurgery, ophthalmology, general surgery, otolaryngology, urology, cardiothoracic surgery, peripheral vascular surgery, orthopedics, plastic and reconstructive surgery, and gynecology, as well as interventional radiology, procedural cardiology and gastroenterology. Patient care experiences will take place in the clinics, emergency department, inpatient wards, inpatient and outpatient operating rooms and procedure suites. The block builds upon the basic science concepts introduced in Phase 1, including cerebral spinal fluid production and flow, fluids and electrolytes, consciousness, inflammation and wound healing, and cancer biology. Structured educational sessions will proceed through a 12 week block following an anatomic approach using case discussions, podcasts, curated independent reading, online nationally supported modules, and simulation skills. All students will complete a longitudinal patient care experience by participating in the pre-operative preparation, anesthesia care, operative care, and post-operative care of one inpatient. In addition, there will be integration of content related to other curricular domains, or "threads", that include Patient Care Communication, Evidence Based Medicine, Health Information Technology, Quality Improvement Patient Safety, Professionalism, Scientific Inquiry and Public Health.

**Requisites:** Declared in Medical program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**MED SC-M 902 – AMBULATORY ACTING INTERNSHIP**

4 credits.

Designed for students to assume primary responsibility of patients in the outpatient setting. Students will work with direct oversight of a faculty attending as they interview and examine patients, decide upon accurate diagnoses and formulate an appropriate treatment plan. The course will be offered among various specialties and will take place across the statewide campus. A primary focus of this rotation is medical decision-making regarding the ordering of tests and labs, medications and other therapeutic interventions. Students will be expected to demonstrate effective communication with patients.

**Requisites:** Declared in Medical program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MED SC-M 909 – INTERNSHIP PREP COURSE**

3 credits.

A required course for all medical students. The course is designed for students to apply the knowledge and skills developed over four years of medical school and prepare them for the transition from medical student to intern. The course will cover topics in the following domains: Common and Critical Medical Conditions, Laboratory Interpretation and Procedural Skills, Professionalism and Communication, Hospital and Team Functioning and Life Skills. Sessions will include core topics for all students and sessions for those who will pursue medical or surgical specialties.

**Requisites:** Enrollment limited to Medical Students in their fourth year only.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MED SC-M 910 – MEDIC CLINICS SELECTIVE: A STUDY OF MARGINALIZED POPULATIONS AND INTERPROFESSIONAL COLLABORATION**

2 credits.

This course provides a two-pronged opportunity for fourth year medical students: 1) to re-engage with MEDiC clinics where they may have volunteered during their first and second years of medical school, and to further appreciate the complexities of serving marginalized populations; 2) the opportunity to use their recent clinical experience to contribute as both mentors and collaborators with students from multiple health professional professions. Students will be asked to look carefully at the broad public health issues affecting the patients they will treat in the MEDiC clinics and to appreciate how these issues inform their health status, health care and health access. Students will also be asked to investigate the role of race in health disparities, as well as the role of socio-economic status.

**Requisites:** Declared in Medical program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017

## MEDICAL SCIENCES - VETERINARY MEDICINE (MED SC-V)

### MED SC-V 570 – ANIMAL HEALTH HISTORY RESTRAINT AND PHYSICAL EXAMINATION

1 credit.

Introduces use of the problem oriented medical record concepts, history taking, physical examination and basic restraint, and diagnostic and therapeutic techniques in large and small domestic animals.

**Requisites:** Declared in Veterinary Medicine program

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### MED SC-V 576 – SMALL ANIMAL EMERGENCY AND CRITICAL CARE I

1 credit.

This course is designed to introduce students in the first and second year of veterinary medical school to various topics of emergency and critical care medicine.

**Requisites:** Good academic standing as a 1st or 2nd year Vet Med program stdt

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### MED SC-V 577 – SMALL ANIMAL EMERGENCY AND CRITICAL CARE II

1 credit.

This course is available to third year veterinary medical students. It will cover various topics in emergency and critical care medicine. Through lectures and case discussions, an introduction to several areas of emergency and critical care medicine will be presented.

**Requisites:** 3rd yr veterinary medical stdt st; prior successful completion of MED SC-V 576

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### MED SC-V 625 – VETERINARY DIAGNOSTIC AND THERAPEUTIC TECHNIQUES

1 credit.

This course will complete the formal laboratory instruction of DVM students in detailed examination techniques and diagnostic and therapeutic procedures relevant to veterinary procedures on all species of domestic animals.

**Requisites:** Declared in Veterinary Medicine program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### MED SC-V 629 – VETERINARY NUTRITION

1 credit.

Presents awareness of the importance of nutrition in the veterinary practice.

**Requisites:** 1st yr Vet Med st

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### MED SC-V 632 – COMPANION ANIMAL AND EQUINE MEDICINE I

6 credits.

Basic concepts of well-animal companion animal and equine health care, nutrition, and reproduction will be presented. Discussion of the etiology, pathophysiology, diagnosis, treatment, and prevention of important internal medicine and reproductive diseases in these species will be emphasized.

**Requisites:** Vet Med 3 st

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### MED SC-V 633 – COMPANION ANIMAL AND EQUINE MEDICINE II

6 credits.

Basic concepts of well-animal companion animal and equine health care, nutrition, and reproduction will be presented. Discussion of the etiology, pathophysiology, diagnosis, treatment, and prevention of important internal medicine and reproductive diseases in these species will be emphasized.

**Requisites:** Vet Med 3 st

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### MED SC-V 634 – FOOD ANIMAL MEDICINE

5 credits.

Introduce students to basic principles for food animal species. To integrate food animal medicine, theriogenology, nutrition and preventive medicine concepts into one course.

**Requisites:** 3rd yr Vet Med st

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### MED SC-V 635 – SWINE MEDICINE

1 credit.

This course is intended for third year veterinary medical students. It will focus on basic swine medicine clinical skills including diagnosis and treatment of common swine diseases that present in individual pigs and populations. Influences of production practices and farm structure will be introduced as they impact the successful practice of swine medicine. Additionally, regulatory influences unique to swine veterinary medicine and principles of biosecurity/biocontainment and bioexclusion will be discussed.

**Requisites:** Veterinary Medical student

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### MED SC-V 667 – SMALL ANIMAL NEUROLOGY

2 credits.

Provide instruction and guidance in obtaining a complete neurological history, interpreting examinations, diagnostic tests and rationally selecting an appropriate diagnosis and effective management for neurology cases.

**Requisites:** 4th yr Vet Med st

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MED SC-V 668 – CLINICAL DERMATOLOGY ROTATION**

2 credits.

Develop the technical, clinical and knowledge skills to effectively examine, diagnose and manage the dermatology patient.

**Requisites:** 4th yr Vet Med st**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MED SC-V 669 – SMALL ANIMAL CARDIOLOGY ROTATION**

2 credits.

Diagnostic techniques and therapy available for the management of cardiology patients.

**Requisites:** 4th yr Vet Med st**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MED SC-V 670 – SENIOR ROTATION IN LARGE ANIMAL MEDICINE SERVICE**

2 credits.

A practical course in diagnosis and medical treatment of diseases of horses, cattle, sheep, goats and pigs. Senior students under supervision will examine, admit and discharge cases in the Veterinary Medical Teaching Hospital.

**Requisites:** Declared in Veterinary Medicine program**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MED SC-V 672 – SENIOR ROTATION IN THERIOGENOLOGY SERVICE**

2 credits.

A practical course on the management of reproduction and reproductive problems in domestic animals including pets.

**Requisites:** Vet Med st or cons inst**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MED SC-V 674 – SENIOR ROTATION IN AMBULATORY SERVICE**

2 credits.

A practical course in the diagnosis, treatment, and recommendation of preventive measures for common medical, surgical and management problems on farms. Senior students will examine the environmental influences associated with such problems.

**Requisites:** Vet Med st or cons inst**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MED SC-V 675 – SPECIAL TOPICS**

1-5 credits.

Topics vary.

**Requisites:** Cons inst**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MED SC-V 678 – SMALL ANIMAL INTERNAL MEDICINE**

2 credits.

To enable student to develop the ability to analyze, organize and integrate information effectively to make clinical decisions relating to the diagnosis, prognosis, management and control of diseases.

**Requisites:** 4th yr Vet Med st**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MED SC-V 679 – SMALL ANIMAL ONCOLOGY**

2 credits.

To develop skills in clinical medicine, palpation, interpretation of laboratory data and become acquainted with oncology clientele.

**Requisites:** 4th yr Vet Med st**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MED SC-V 699 – DIRECTED STUDY**

1-5 credits.

Projects in the laboratory and/or through library work in specific subject areas under the direct guidance of a faculty member.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MED SC-V 701 – PRODUCTION MEDICINE I**

2 credits.

Students visit dairy farms, learn to identify production limiting problems, and develop a priority list based upon economic importance. The farm investigation consists of visual evaluations of farmstead and herd, interpretation of DHI records, and computer analysis of herd records.

**Requisites:** Declared in Veterinary Medicine program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012**MED SC-V 703 – PRODUCTION MEDICINE II**

2 credits.

An elective rotation for students interested in dairy practice and udder health in particular. Students will investigate and analyze farm and laboratory data and evaluate recommendations using benefit/cost analyses. Students will perform milking system, milking procedure, and environmental management evaluations.

**Requisites:** Declared in Veterinary Medicine program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2013

**MED SC-V 705 – PRODUCTION MEDICINE III-APPLIED DAIRY NUTRITION**  
2 credits.

A clinical elective rotation for students interested in applying principles of nutrition to dairy practice. The rotation will include lectures, computer exercises, and farm visits.

**Requisites:** Declared in Veterinary Medicine program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**MED SC-V 707 – PRODUCTION MEDICINE IV**  
2 credits.

Assess and use dairy farm records using Dairy Comp 305 software; devise partial budgets and calculate the cost of producing milk on dairy farms.

**Requisites:** Med Sc-V 701, 703, 705

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MED SC-V 708 – EQUINE THERIOGENOLOGY**  
2 credits.

Develop clinical skills for entry-level practice of equine reproduction.

**Requisites:** 4th yr Vet Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**MED SC-V 775 – EXTERNSHIP**  
1-24 credits.

This course is an elective for fourth year veterinary medical students which offers faculty coordinated experience in the veterinary medical profession outside the School.

**Requisites:** Vet Med st or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MEDICINE (MEDICINE)****MEDICINE/KINES/NURSING 523 – CLINICAL EXERCISE TESTING & TRAINING**  
3 credits.

Physiological basis and methods of human exercise testing and training. Topics: clinical exercise physiology, exercise testing protocols, cardiopulmonary monitoring, basic ECG interpretation, exercise prescription.

**Requisites:** KINES 314 or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MEDICINE/M&ENVTOX/ONCOLOGY/PATH/PHM SCI/PHMCOL-M/POP HLTH 625 – TOXICOLOGY I**  
3 credits.

Basic principles of toxicology and biochemical mechanisms of toxicity in mammalian species and man. Correlation between morphological and functional changes caused by toxicants in different organs of the body.

**Requisites:** BIOCHEM 501, PHYSIOL 335, PATH 404 and PHM SCI 401

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MEDICINE/M&ENVTOX/PATH/PHM SCI/PHMCOL-M/POP HLTH 626 – TOXICOLOGY II**  
3 credits.

Survey of the basic methods and fundamental biochemical mechanisms of toxicity. Toxicity in mammalian organ systems, techniques for evaluating toxicity, as well as mechanisms of species specificity, and environmental interactions (with toxicant examples) are presented.

**Requisites:** MENVTOX/MEDICINE/ONCOLOGY/PATH/PHMCOL-M/PHM SCI/POP HLTH/M&ENVTOX/MEDICINE/ONCOLOGY/PATH/PHM SCI/PHMCOL-M 625

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MEDICINE/INTEREGR 650 – WOMEN AND LEADERSHIP IN MEDICINE, SCIENCE AND ENGINEERING**  
1-3 credits.

Review and discussion of research on effective leadership; gender differences in leadership; unconscious assumptions about behaviors and traits of leaders; and approaches to counteracting biases. Required assignments vary with credits from reflective journal to literature review to research project.

**Requisites:** Graduate students, Professional students: Upper-level undergrads with consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MEDICINE 699 – INDEPENDENT STUDY**  
9 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MEDICINE/CRB 701 – CELL SIGNALING AND HUMAN DISEASE**

1 credit.

This course is intended for PhD and MSTP students interested in medically relevant basic science. Landmark discoveries, as well as current knowledge and controversies in human health, with an emphasis on cancer biology, will be covered.

**Requisites:** Students must be enrolled in a PhD or MSTP program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MEDICINE/NURSING/POP HLTH 705 – SEMINAR IN INTERDISCIPLINARY CLINICAL RESEARCH EVIDENCE**

2 credits.

Exploration of interdisciplinary clinical research questions including strategies for assessing the evidence and conducting a systematic review of research. An interdisciplinary perspective is emphasized throughout the course.

**Requisites:** POP HLTH/SOC/POP HLTH 797 and BMI/STAT/BMI 542

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**MEDICINE 710 – IMPROVISATIONAL THEATRE FOR SCIENTISTS**

1 credit.

Improvisers are experts in storytelling, spontaneity, and using observation skills to adjust to their audiences and team members accordingly. Among other skills, this 5-week course will teach you how to (1) effectively communicate your work to different audiences, (2) adjust your behavior in real time to respond to audience feedback, and (3) manipulate your vocal and physical presence to communicate more effectively.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MEDICINE 812 – PRINCIPLES OF INTERNAL MEDICINE-BASIC CLERKSHIP**

1-12 credits.

**Requisites:** 3rd yr st in Med School

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MEDICINE 901 – MSTP INTRODUCTION TO CLINICAL MEDICINE**

3 credits.

Full-time clinical clerkship for students of the Medical Scientist (MD/PhD) Training Program (MSTP) prior to graduate school, taken to develop clinical skills and cement prior didactic coursework.

**Requisites:** Limited to MSTP stdts who have completed yrs 1 2 of med school have taken USMLE Step 1

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**MEDICINE/PEDIAT/RADIOL 902 – MSTP PHYSICIAN SCIENTIST PRECEPTORSHIP IN CLINICAL & TRANSLATIONAL RESEARCH**

1-6 credits.

Six-week clinical and translational research preceptorship for students of the Medical Scientist (MD/PhD) Training Program (MSTP).

**Requisites:** Limited to MSTP students in fourth year of medical school who have completed MEDICINE 901 and MEDICINE 903 or with instructor consent

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MEDICINE 903 – MSTP LONGITUDINAL CLINICAL CLERKSHIP IN GRADUATE SCHOOL**

1-12 credits.

This is a required clinical elective for MSTP students during their graduate years. During PhD training, all students are required to participate in a scholarly continuity clinical experience in their fields of interest. Each student will complete and certify 10 half-day sessions or equivalent with an academic clinical mentor and present in the MSTP seminar.

**Requisites:** Limited to MSTP students in graduate school

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MEDICINE 908 – MY STORY:TECHNIQUES FOR INTERVIEWING PATIENTS**

2 credits.

Teaches students My Life, My Story interviewing and writing techniques. My Life, My Story is a novel healthcare intervention developed at the Madison VA hospital. Program staff and trained community volunteer interview Veterans about their life stories and write up a short story based on the interview. These stories are then reviewed by the veteran and (with veteran approval) added to the VA medical record to be shared with the veteran's inpatient and primary care teams. The veteran also receives printed copies of the story for his/her family. The goal of the project is to foster a closer connection between VA providers and Veterans in their care.

**Requisites:** Declared in the Medical program with 4th year standing or MED SC-M 812

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No



**MEDICINE 910 – INDEPENDENT READING AND RESEARCH FOR FOURTH YEAR MEDICAL STUDENTS**

1-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MEDICINE/PHMCO-M 914 – THERAPEUTICS I - EMPHASIS ON CHRONIC DISEASES**

2 credits.

Students will have a greater knowledge of the use of drugs to treat common illnesses. They will better understand the appropriate selection of drugs and the management of side effects in treating chronic illnesses.

**Requisites:** 4th yr Med st or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2013**MEDICINE 915 – CLINICAL THERAPEUTICS - PREPARATION FOR RESIDENCY**

2-4 credits.

Students will be better prepared for internship by developing a greater understanding of common medical diseases and the best current pharmacologic and non-pharmacologic therapies. Students will learn how to apply this knowledge through recorded lectures and interactive case-based web-conferences.

**Requisites:** 4th yr Med student or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MEDICINE 916 – PALLIATIVE CARE**

2-4 credits.

To introduce students to the clinical aspects of palliative care integrated between patients here at the CSC either by seeing them in the clinic or on the inpatient service and Hospice Care Inc.

**Requisites:** 4th yr Med student**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MEDICINE 917 – RESEARCH IN TOBACCO PREVENTION AND CESSATION**

4 credits.

Provides students with an exposure to and training in tobacco research and intervention activities. The students will be housed at the UW Center for Tobacco Research and Intervention (CTRI), the lead UW campus agency confronting tobacco use.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MEDICINE/B M I 918 – HEALTH INFORMATICS FOR MEDICAL STUDENTS**

2 credits.

Explore medical informatics as a new way to practice medicine with applications to patient care, electronic medical records, and patient safety.

**Requisites:** Basic computer literacy 4th yr Med st or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MEDICINE 919 – INDIVIDUALIZED FOURTH YEAR CLINICAL CLERKSHIP**

1-12 credits.

Individually arranged fourth year clinical clerkships. (Student must have Fourth Year Committee approval to count for fourth year credit.)

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MEDICINE 921 – AMBULATORY MEDICINE CLERKSHIP-STUDENT HEALTH**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MEDICINE 930 – WOMEN'S HEALTH IN PRIMARY CARE**

2-4 credits.

This elective will focus on fundamental aspects of women's health important to all physicians in internal medicine. Students will work with academic faculty in women's health to refine clinical knowledge and skills essential for providing excellent health care to women.

**Requisites:** Successful completion of 3rd yr Internal Med Clrkshp and/or Primary Care Clrkshp**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MEDICINE 933 – GERIATRIC ELECTIVE**

2-12 credits.

**Requisites:** 4th year medical student standing or completion of MEDICINE 812 (3rd year medicine clerkship)**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**MEDICINE 935 – HEMATOLOGY/ONCOLOGY**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MEDICINE 938 – ACTING INPATIENT INTERNSHIP-INTERNAL MEDICINE**  
4 credits.

As an inpatient medicine acting intern (AI), you will have primary responsibility for patients actionable in four domains: 1. Management: As an AI, you will develop actionable management and treatment plans based on your history, physical exam and targeted data. 2. Communication: AIs will communicate with colleagues, primary care providers and consultants. AIs will demonstrate thorough patient hand-offs and write concise discharge summaries that will be integral to patient care. 3. Learning: Patient care issues will be the central guide for learning, directing reading, consultation and research. AIs will formulate questions based upon clinical dilemmas, research the appropriate literature and databases to find the answers, and apply findings to the care of individual patients. 4. Organization: As the primary inpatient provider for patients, AIs will develop efficiency in accomplishing the day to day tasks necessary for the coordination and management of patient care.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MEDICINE 939 – INPATIENT-OUTPATIENT ALCOHOL AND OTHER DRUG ABUSE CLERKSHIP-MARSHFIELD**

2-12 credits.

Clinical elective for fourth year medical students.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**MEDICINE 940 – ALLERGY AND CLINICAL IMMUNOLOGY CLERKSHIP**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MEDICINE 942 – CLINICAL ELECTROPHYSIOLOGY-MILWAUKEE**

2-12 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MEDICINE 943 – CARDIOLOGY CONSULTATION SERVICE**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MEDICINE 944 – CLINICAL CARDIOLOGY CLERKSHIP**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

**MEDICINE 945 – ACUTE CARE MEDICAL CARDIOLOGY-MILWAUKEE**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MEDICINE 949 – ADULT CARDIOVASCULAR DISEASES CLERKSHIP-MARSHFIELD**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MEDICINE 951 – AMBULATORY CARDIOLOGY**

4 credits.

This course will provide an overview of outpatient diagnosis and management of adult cardiovascular diseases through direct patient contact, mentored instruction and directed core readings.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MEDICINE 953 – DERMATOLOGY CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MEDICINE 954 – DERMATOLOGY CLERKSHIP-MARSHFIELD**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MEDICINE 955 – HEPATOLOGY**

2 credits.

Students will be exposed to inpatient and outpatient hepatology practice and learn how to function as a consultant in an academic and Veterans Administration Medical Center over a two week rotation.

**Requisites:** MEDICINE 812**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MEDICINE 962 – ENDOCRINOLOGY CLERKSHIP**

2-12 credits.

**Requisites:** Fourth year medical school standing or successful completion of third year medicine clerkship**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MEDICINE 964 – INPATIENT-OUTPATIENT GI/HEPATOLOGY SUBINTERNSHIP-MARSHFIELD**

2-12 credits.

Clinical elective for fourth year medical students.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**MEDICINE 965 – GASTROENTEROLOGY CLERKSHIP**

1-12 credits.

**Requisites:** 4th yr Medical student**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MEDICINE 969 – TRANSFUSION MEDICINE CLERKSHIP-CSC**

2-12 credits.

Clinical elective for fourth year medical students.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MEDICINE 970 – GASTROENTEROLOGY/HEPATOLOGY CONSULT SERVICE-MILWAUKEE**

2-12 credits.

Clinical elective for fourth year medical students.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**MEDICINE 971 – INFECTIOUS DISEASE CLERKSHIP**

2-12 credits.

**Requisites:** 4th yr Med student**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MEDICINE 972 – INFECTIOUS DISEASE CLERKSHIP-VAH**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2011**MEDICINE 976 – CLINICAL NEPHROLOGY CLERKSHIP**

2-12 credits.

**Requisites:** 4th yr Med student**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MEDICINE 981 – PULMONARY DISEASE - CLINIC/CONSULTS**

2-12 credits.

**Requisites:** 4th yr Med student**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MEDICINE 985 – CRITICAL CARE MEDICINE**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MEDICINE 988 – CLINICAL ELECTIVE IN RHEUMATOLOGY-CSC/VAH**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**MEDICINE 990 – RESEARCH**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MEDIEVAL STUDIES (MEDIEVAL)****MEDIEVAL/HISTORY/RELIG ST 112 – THE WORLD OF LATE ANTIQUITY (200-900 C.E.)**

4 credits.

History of the Mediterranean World from the late Roman Empire to the development of distinct European, Byzantine and Islamic civilizations (ca. 200-900 CE). Special attention will be paid to the rise and development of Christianity and Islam.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2012**MEDIEVAL/HISTORY 215 – LIFE IN THE MIDDLE AGES: AN INTER-DEPARTMENTAL COURSE**

3-4 credits.

An introduction to the life and culture of the Middle Ages with lectures from members of the departments offering courses within the Medieval Studies Program.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2009**MEDIEVAL/LITTRANS 235 – THE WORLD OF SAGAS**

3 credits.

The Icelandic sagas viewed in their social, cultural, and literary contexts. An introduction to one of the greatest bodies of vernacular literature of the early Middle Ages.

**Requisites:** Open to Fr**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**MEDIEVAL/LITTRANS/RELIG ST 253 – LITERATURE IN TRANSLATION: DANTE'S DIVINE COMEDY**

3 credits.

**Requisites:** So st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**MEDIEVAL/HISTORY/RELIG ST 309 – THE CRUSADES: CHRISTIANITY AND ISLAM**

3-4 credits.

An examination of the Crusades from both Christian and Islamic perspectives; the historical, social, and religious context and significance of the Crusades for both Christians and Muslims.

**Requisites:** So st**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**MEDIEVAL/HISTORY/RELIG ST 312 – THE MEDIEVAL CHURCH**

3-4 credits.

The course covers the formation and development of exlesiastical institutions and religious life in Western Europe from the fourth century to the Protestant Reformation.

**Requisites:** Open to Fr with cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2010**MEDIEVAL/HISTORY 313 – INTRODUCTION TO BYZANTINE HISTORY AND CIVILIZATION**

3-4 credits.

Topical consideration of the entire scope of the history of the Byzantine Empire, from the fourth to the fifteenth centuries, and selected aspects of its culture.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2012

**MEDIEVAL/HISTORY 314 – PROBLEMS IN BYZANTINE HISTORY AND CIVILIZATION**

3-4 credits.

Intensive study of specific areas of the Byzantine Empire's history and culture, selected by agreement between instructor and students, stressing individual research efforts.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2009**MEDIEVAL/HISTORY/RELIG ST 318 – MEDIEVAL SOCIAL AND INTELLECTUAL HISTORY, 1200-1450**

3-4 credits.

Emphasis on social change and intellectual developments.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2012**MEDIEVAL/HIST SCI 322 – ANCIENT AND MEDIEVAL SCIENCE**

3 credits.

Scientific ideas and institutions from the beginnings of Greek philosophy to the Renaissance. Grads must enroll concurrently in Hist Sci 622

**Requisites:** Jr st or cons inst.**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2013**MEDIEVAL/FOLKLORE/LITTRANS/RELIG ST 342 – IN TRANSLATION: MYTHOLOGY OF SCANDINAVIA**

3-4 credits.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MEDIEVAL/FOLKLORE/LITTRANS 345 – IN TRANSLATION: THE SCANDINAVIAN TALE AND BALLAD**

3-4 credits.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MEDIEVAL/FOLKLORE/LITTRANS 346 – IN TRANSLATION: THE ICELANDIC SAGAS**

3-4 credits.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MEDIEVAL 351 – ARTHURIAN LEGEND AND LITERATURE**

3 credits.

An examination of the evolution of the legend of King Arthur from its historical beginnings through medieval romance up to modern manifestations, including film.

**Requisites:** 6 cr of intro lit**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2010**MEDIEVAL/HISTORY/JEWISH/RELIG ST 368 – THE BIBLE IN THE MIDDLE AGES**

3 credits.

Medieval Bible and its shaping effect on medieval culture.

**Requisites:** Sophomore standing or consent of instructor**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2009**MEDIEVAL/SCAND ST 407 – OLD NORSE**

3 credits.

Reading of texts from the Sagas and Eddas, with comparative study of linguistic structure and literary style.

**Requisites:** Grad st or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**MEDIEVAL/SCAND ST 408 – OLD NORSE**

3 credits.

Continuation of 407

**Requisites:** Scand St 407 or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**MEDIEVAL/SCAND ST 409 – SURVEY OF OLD NORSE-ICELANDIC LITERATURE**

3 credits.

Eddic and skaldic poetry; homilies and saints' lives, kings' sagas, sagas of the Icelanders; mythical-heroic sagas and romances; rimur.

**Requisites:** Grad st or cons inst; or Scand St/MEDIEVAL/SCAND ST 407

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**MEDIEVAL/SPANISH 414 – LITERATURA DE LA EDAD MEDIA CASTELLANA (SS. XII-XV)**

3 credits.

The study of a particular author, work, topic, or literary genre of the Middle Ages and/or Early Renaissance (through 15th century): Poema de mio Cid, mester de juglaria, Libro de buen amor, mester de clerecia, El conde Lucanor, La Celestina, etc. Graduate students may not enroll

**Requisites:** SPANISH 223 and 224.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**MEDIEVAL/ART HIST 415 – TOPICS IN MEDIEVAL ART**

3 credits.

An advanced lecture course, covering specific aspects of Medieval art. Topics may include: "Death and the Afterlife in Medieval Art"; "Civic Art and Architecture and Public Space in Medieval Italy"; "Rome in the Middle Ages"; "Pilgrimage the Cult of the Saints in Medieval Byzantine Art."

**Requisites:** Jr st one Art Hist crse at 200 level and one at 300 level, or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MEDIEVAL/ENGL 423 – TOPIC IN MEDIEVAL LITERATURE AND CULTURE**

3 credits.

Subject differs each year.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**MEDIEVAL/ENGL 424 – MEDIEVAL DRAMA**

3 credits.

An introduction to the dramatic traditions of medieval England, from early church rituals performed inside quiet monasteries in the tenth century to the elaborate and often raucous urban guild cycles and morality plays of the fifteenth, and with special attention to the significance of spirituality, work, and play in medieval culture.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**MEDIEVAL/ENGL 425 – MEDIEVAL ROMANCE**

3 credits.

An introduction to one of the first forms of narrative fiction, covering tales of adventure, magic, courtly love, and King Arthur from the twelfth through the fifteenth century.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**MEDIEVAL/ENGL 426 – CHAUCERS COURTLY POETRY**

3 credits.

An introduction to the poetry of the most famous and influential medieval English poet, from his short lyrics on love through his dream visions of talking birds and castles built on ice to the historical romance Troilus and Criseyde. Readings will be in the original Middle English; no prior experience with the language is required. Students who have taken English 368 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MEDIEVAL/ENGL 427 – CHAUCER'S CANTERBURY TALES**

3 credits.

An introduction to the most famous and influential medieval English poet through his best-known work and its playful and profound responses to some of the most pressing literary, social, political, and spiritual issues of his time. Readings will be in the original Middle English; no prior experience with the language is required. Students who have taken English 367 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**MEDIEVAL/SCAND ST 430 – THE VIKINGS**

4 credits.

Within a historical framework, a thorough introduction to the culture, literature, and religion of the Vikings. Knowledge of a Scand lang is not required

**Requisites:** Jr St or cons inst.**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2012**MEDIEVAL/RELIG ST 440 – FRANCIS OF ASSISI: LITERATURE AND THE ARTS**

3 credits.

Francis of Assisi: Literature and the Arts." Focus on accounts of St. Francis's life as written by medieval authors (e.g., Bonaventure of Bagnoregio, Thomas of Celano, the Franciscan Brother Leo) as well as works written by Francis himself. Examination of the relevance of Francis's teachings to contemporary reflections regarding relationships with the Other, the environment and animals. Discussion of issues related to religion, politics, bio-politics and environmental studies.

**Requisites:** Sophomore standing or above**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**MEDIEVAL/SCAND ST 444 – KALEVALA AND FINNISH FOLK-LORE**

4 credits.

Kalevala and the oral literature of Finland.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**MEDIEVAL/FOLKLORE/SCAND ST 446 – CELTIC-SCANDINAVIAN CULTURAL INTERRELATIONS**

3 credits.

Examination of shared traditions and historical connections between the North and Northwest of Europe. Readings of medieval and pre-modern Scandinavian, Scottish, Welsh and Irish sagas, histories, talks. Discussion of the role of folklore in modern Celtic and Scandinavian societies.

**Requisites:** So st or above required, or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**MEDIEVAL/SPANISH 503 – SURVEY OF MEDIEVAL LITERATURE**

3 credits.

Readings of texts, lexicography, and history.

**Requisites:** Graduate or professional standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**MEDIEVAL/SPANISH 504 – SURVEY OF MEDIEVAL LITERATURE**

3 credits.

Continuation of 503.

**Requisites:** Graduate or professional standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MEDIEVAL/ENGL 520 – OLD ENGLISH**

3 credits.

The elements of Old English grammar with selected readings. Students who have taken English 320 prior to fall 2014 may not enroll in this course.

**Requisites:** 6 credits of introductory literature**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

Honors - Accelerated Honors (!)

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MEDIEVAL/ENGL 521 – ADVANCED OLD ENGLISH LITERATURE**

3 credits.

An intensive study of a major work or works of Old English, usually focusing on either Beowulf or the poems of a single manuscript. Line-by-line translation of the text will be supplemented by discussion of related issues (whether linguistic, thematic, or contextual) as well as by readings from relevant critical literature. Primary texts will be read in Old English.

**Requisites:** Must have taken English 520 Fall 2014 or later; or English 320 prior to Fall 2014**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

Honors - Accelerated Honors (!)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015



**MEDIEVAL/ENGL 522 – MIDDLE ENGLISH LANGUAGE**

3 credits.

The English language and its development in selected texts from the Norman Conquest to Chaucer. Students who have taken English 321 prior to fall 2014 may not enroll in this course.

**Requisites:** 522 completed Fall 2014 or later, or 320 completed prior to Fall 2014

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**MEDIEVAL/SPANISH 541 – OLD SPANISH**

3 credits.

Historical Spanish phonology, morphology, and syntax, with application to analysis of medieval Spanish texts. Some attention to paleographic and editorial problems.

**Requisites:** Graduate or professional standing

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MEDIEVAL/CLASSICS/FRENCH/HISTORY/ITALIAN 550 – ADVANCED INTERDISCIPLINARY STUDIES IN MEDIEVAL CIVILIZATION**

3 credits.

An integrated treatment of a specific theme, to be announced by a group of specialists in different fields.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2012

**MEDIEVAL/HIST SCI/HISTORY/MED HIST/S&A PHM 562 – BYZANTINE MEDICINE AND PHARMACY**

3 credits.

Byzantine and Islamic medicine and drug lore from Oribasius to the beginnings of the Italian Renaissance (c. 350 - c. 1400 A.D.).

**Requisites:** Junior standing

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**MEDIEVAL/LATIN 563 – MEDIAEVAL LATIN**

3 credits.

**Requisites:** LATIN 204 or appropriate placement score

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2014

**MEDIEVAL/GERMAN 611 – SURVEY OF GERMAN LITERATURE TO 1700**

3 credits.

Representative works from the oldest records to the eighteenth century.

**Requisites:** Sr st or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**MEDIEVAL/GERMAN 651 – INTRODUCTION TO MIDDLE HIGH GERMAN**

3 credits.

**Requisites:** Advanced knowledge of German

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MEDIEVAL/ITALIAN 659 – DANTE'S DIVINA COMMEDIA**

3 credits.

Lectures on Dante's life and times, reading Divine Comedy, commentary, discussion, reports.

**Requisites:** ITALIAN 321-322 or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**MEDIEVAL/ITALIAN 660 – DANTE'S DIVINA COMMEDIA**

3 credits.

Continuation of 659

**Requisites:** ITALIAN 321-322 or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**MEDIEVAL/ITALIAN 671 – IL DUECENTO**

3 credits.

I: A systematic study of the earliest literary texts in Italy; the rise of the love lyric among the Sicilian poets; representative narrative works. II: The development of the lyric from Guittone d'Arezzo to the poets of the Dolce Stil Nuovo (Guinizzelli, Cavalcanti, Dante).

**Requisites:** ITALIAN 321-322 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**MEDIEVAL/ITALIAN 672 – IL DUECENTO**

3 credits.

Continuation of 671

**Requisites:** ITALIAN 321-322 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2010**MEDIEVAL 699 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**MEDIEVAL/FRENCH 701 – INTRODUCTION A L ANCIEN FRANCAIS**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**MEDIEVAL/FRENCH 703 – LA LITTERATURE FRANCAISE DU XIV ET DU XV SIECLE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2012**MEDIEVAL/FRENCH 704 – LA LITTERATURE FRANCAISE DU XIV ET DU XV SIECLE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**MEDIEVAL/FRENCH 705 – LA LITTERATURE FRANCAISE DES DEBUTS JUSQU A LA FIN DU XIII SIECLE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MEDIEVAL/SPANISH 718 – TOPICS IN MEDIEVAL SPANISH LITERATURE**

3 credits.

An advanced topics course focusing on themes, particular authors, individual works, or literary genres in medieval Spanish literature.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**MEDIEVAL/HISTORY 720 – SELECTED TOPICS IN MEDIEVAL HISTORY**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2009**MEDIEVAL/GERMAN 755 – OLD GERMANIC LANGUAGES**

3 credits.

Old High German, Old Saxon, and Gothic on a rotating basis; may be repeated for different languages.

**Requisites:** Cons inst or GERMAN/MEDIEVAL 651**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MEDIEVAL/ENGL 803 – TOPICS IN MEDIEVAL LITERATURE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**MEDIEVAL/SPANISH 841 – SEMINAR: LIBRO DE BUEN AMOR, CELESTINA, CORBACHO**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2010**MEDIEVAL/SPANISH 842 – SEMINAR-MEDIEVAL LITERATURE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MEDIEVAL/FRENCH 939 – LA LITTERATURE MEDIEVALE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014**MICROBIOLOGY (MICROBIO)****MICROBIO 1 – COOPERATIVE EDUCATION/CO-OP IN MICROBIOLOGY**

1 credit.

Full-time off-campus work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career. Students receive credit only for the term in which they are actively enrolled and working. The same work experience may not count towards credit in MICROBIO 399.

**Requisites:** So st, and consent of supervising instructor and academic advisor.**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2010**MICROBIO 100 – THE MICROBIAL WORLD**

3 credits.

Roles of microorganisms and viruses in nature, health, agriculture, pollution control and ecology. Principles of disease production, epidemiology and body defense mechanisms. Biotechnology and the genetic engineering revolution. Primarily for non-science majors; not accepted for degree credit in Bacteriology. No degree credit for both Bact 100 101 or 303

**Requisites:** Open to Fr.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2010**MICROBIO 101 – GENERAL MICROBIOLOGY**

3 credits.

Survey of microorganisms and their activities; emphasis on structure, function, ecology, nutrition, physiology, genetics. Survey of applied microbiology—medical, agricultural, food and industrial microbiology. Intended to satisfy any curriculum which requires introductory level microbiology. See 102 if laboratory is desired. Stdts may not rec cr for both Bact 101303. Stdts with 1 sem organic chem who will continue in biol or phys sci take 303. Open to Fr

**Requisites:** CHEM 103 or 108 or 109 or 115.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MICROBIO 102 – GENERAL MICROBIOLOGY LABORATORY**

2 credits.

Covers techniques and procedures used in general microbiology, including cultivation, enumeration, aseptic techniques, physiology and selected applications. Stdts may not receive credit for both Bact 102 304. Open to Freshmen

**Requisites:** Bact 101 or concurrent registration (preferred).**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MICROBIO 289 – HONORS INDEPENDENT STUDY**

1-2 credits.

Inter-Ag 288

**Requisites:** Enrolled in the CALS Honors Prgm Sophomore or Junior standing.**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2010**MICROBIO 299 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Open to Fr, So or Jr st written cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**MICROBIO 303 – BIOLOGY OF MICROORGANISMS**

3 credits.

Basic biology of microorganisms, including structure, function, physiology, genetics, ecology, diversity, and evolution. No degree cr for both Bact 101 303. Required of Bact majors, recommended for biol sci majors

**Requisites:** Prev crse in botany, zool, Biocore or gen biol; 1 sem org chem or con reg.

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MICROBIO 304 – BIOLOGY OF MICROORGANISMS LABORATORY**

2 credits.

Introduction to modern laboratory techniques used to study the distribution and properties of microorganisms. This is the companion lab to Microbiology 303. Degree credits cannot be earned in both Microbiology 102 and 304. No degree cr for both Bact 102 304. Required of Bact majors recommended for bio-sci majors

**Requisites:** Bact 303 or con reg.

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MICROBIO 305 – CRITICAL ANALYSES IN MICROBIOLOGY**

1 credit.

Train students to become scientific problem-solvers, to critically analyze data, and to comprehend the principles of microbiological research via active discussion of a combination of scholarly papers and contemporary, hot topics in our field.

**Requisites:** MICROBIO 303 or con reg

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MICROBIO/FOOD SCI 324 – FOOD MICROBIOLOGY LABORATORY**

2 credits.

Lab exercises dealing with food preservation, spoilage, and food poisoning. Isolation, identification and quantification of specific microbes occurring in foods, and food fermentations by bacteria and yeast.

**Requisites:** (MICROBIO 102 or MICROBIO 304) and MICROBIO/FOOD SCI/ MICROBIO 325 or concurrent enrollment

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MICROBIO/FOOD SCI 325 – FOOD MICROBIOLOGY**

3 credits.

Principles of food preservation, epidemiology of foodborne illness, agents of foodborne illness, food fermentations and biotechnology.

**Requisites:** MICROBIO 101, MICROBIO 303, or M M & I 301

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MICROBIO 330 – HOST-PARASITE INTERACTIONS**

3 credits.

Interrelationships between bacterial and viral parasites and their host cells or tissues. Stresses microbial strategies and mechanisms of colonization, invasion, pathogenesis and resistance of host defenses.

**Requisites:** Bact 101 102; or Bact 303 304; or equiv

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**MICROBIO 375 – SPECIAL TOPICS**

1-4 credits.

Subjects of current interest to undergrads.

**Requisites:** Variable prerequisites depending on topic

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**MICROBIO 399 – COORDINATIVE INTERNSHIP/COOPERATIVE EDUCATION**

1-8 credits.

**Requisites:** So or Jr or Sr st cons suprvsg inst, advisor, intrshp prog coordinator

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2013

**MICROBIO 400 – STUDY ABROAD IN MICROBIOLOGY**

1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. W.-Madison Study Abroad Program

**Requisites:** Current registration in a U.

**Repeatable for Credit:** Yes, unlimited number of completions

**MICROBIO/SOIL SCI 425 – ENVIRONMENTAL MICROBIOLOGY**

3 credits.

Microbial interactions in soils, water, extreme environments and biofilms. Modern methods for studying microbial ecology. role of microbes in nutrient cycles and biogeochemistry. Use of microbes for mitigating manmade environmental problems of industrial, agricultural, and domestic origin.

**Requisites:** Bact 303, CHEM 341 or 343**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MICROBIO 450 – DIVERSITY, ECOLOGY AND EVOLUTION OF MICROORGANISMS**

2 credits.

Fundamental concepts relating to the phylogenetic diversity, ecology and evolution of microbes. Active learning methods applying these concepts will promote a deeper understanding of microbiology.

**Requisites:** Bact 303, 1 sem of genetics, either BIOCHEM 501 or equiv or 507 or equiv**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MICROBIO 470 – MICROBIAL GENETICS & MOLECULAR MACHINES**

3 credits.

An undergraduate-level course in modern microbial genetics and molecular processes. Emphasis on the use of eubacterial and eukaryotic microbes to elucidate cellular function. Discussion of experimental approaches to study microbes and their use in biotechnology, bioremediation, and medicine.

**Requisites:** MICROBIO 303**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MICROBIO/SOIL SCI 523 – SOIL MICROBIOLOGY AND BIOCHEMISTRY**

3 credits.

Transformations of nutrients and contaminants in soils and groundwater by microorganisms: emphasis on enzymatic mechanisms and metabolic pathways. Approaches for analyzing microbial populations and activities including molecular techniques. Applications of microbial activities for bioremediation of contaminated soils and groundwater.

**Requisites:** CHEM 104; Bact 303 or Bot 375 or BIOCHEM 501, or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MICROBIO/BIOLOGY 525 – ADVANCED BIOLOGICAL LABORATORY PRACTICES: A RESEARCH EXPERIENCE**

2 credits.

Theory and practice of techniques typically used in microbiological and related biological research; biological experimental data interpretation and analysis; practice writing a research paper, reading primary literature, presenting their work to peers, and self-directing an independent research project (including keeping accurate lab notebooks); critical thinking in controversial scientific research ethics.

**Requisites:** MICROBIO 303 and 304**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**MICROBIO 526 – PHYSIOLOGY OF MICROORGANISMS**

3 credits.

Biochemistry of microbial processes. Bact 527 is the accompanying lab.

**Requisites:** Bact 303, 370 either BIOCHEM 501 or BmolChem 603.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MICROBIO 527 – ADVANCED LABORATORY TECHNIQUES IN MICROBIOLOGY**

2 credits.

This course will provide students with a strong foundation in modern methods of research in the biomedical sciences as they address hypothesis-driven scientific questions. Students will also be coached in and practice critical data analysis and scientific writing.

**Requisites:** Declared in Microbiology and MICROBIO 304**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MICROBIO/M M & I/PATH-BIO 528 – IMMUNOLOGY**

3 credits.

Development and functions of immune response in animals; a comprehensive study of experimental humoral and cellular immunity.

**Requisites:** Two sem chem and one sem zoology or gen biology**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017



**MICROBIO/ONCOLOGY 545 – TOPICS IN BIOTECHNOLOGY**

1 credit.

Seminars on current topics in agricultural, medical, and industrial biotechnology such as: microbiological production of food, drink, biopharmaceuticals; production methods, genetic engineering (vectors, recombination cloning), continuous fermentation; bioconversion processes and production of chemicals from biomass; plant biotechnology; transgenic animals.

**Requisites:** BIOCHEM 501 and GENETICS 466 or equiv**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MICROBIO 551 – CAPSTONE RESEARCH PROJECT IN MICROBIOLOGY**

2 credits.

Students will conduct independent research in either a PI's laboratory or in small groups in our teaching laboratories. Students will discuss progress of their projects and research ethics, will write a research proposal and will prepare and present a poster with final results for the department Poster Session. The in-class students use microbiological, molecular, and bioinformatic approaches to investigate the microbial ecology of environmental microbial communities. Research-lab students will progress toward goals established by the research mentor / PI.

**Requisites:** MICROBIO 527**Course Designation:** Gen Ed - Communication Part B

Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MICROBIO/GENETICS 607 – ADVANCED MICROBIAL GENETICS**

3 credits.

Molecular genetic methods and related aspects of prokaryotic and lower eukaryotic biology, as well as critical analysis of the scientific literature. Approximately two-thirds of the course will focus on prokaryotes and one-third on lower eukaryotic microbes.

**Requisites:** GENETICS 466 or equiv, BIOCHEM 501 or equiv, Grad st or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MICROBIO/BIOCHEM/GENETICS 612 – PROKARYOTIC MOLECULAR BIOLOGY**

3 credits.

Molecular basis of bacterial physiology and genetics with emphasis on molecular mechanisms; topics include nucleic acid-protein interactions, transcription, translation, replication, recombination, regulation of gene expression.

**Requisites:** Bact 370 or equiv BIOCHEM 501 or equiv, or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MICROBIO/PL PATH 622 – PLANT-BACTERIAL INTERACTIONS**

2-3 credits.

Physiology, genetics, taxonomy, and ecology of bacterial pathogens, epiphytes, and symbionts of plants.

**Requisites:** A course in advanced bacteriology; GENETICS 466 or equiv; BIOCHEM 501 or equiv; or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MICROBIO 625 – ADVANCED MICROBIAL PHYSIOLOGY**

3 credits.

Course topics will focus on microbial physiology with an emphasis on metabolic processes.

**Requisites:** Bact 550 or equiv, and BIOCHEM 501 or 601 or con reg cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2013**MICROBIO 632 – INDUSTRIAL MICROBIOLOGY/BIOTECHNOLOGY**

2 credits.

Application of modern techniques of genetics and physiology to the large-scale production of microbial products; industrial strain improvement; scale-up of microbial processes; survey of industrial processes using microorganisms.

**Requisites:** Bact 526 BIOCHEM 501 or equiv**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017



**MICROBIO/ONCOLOGY/PL PATH 640 – GENERAL VIROLOGY-MULTIPLICATION OF VIRUSES**

3 credits.

Bacterial and animal viruses, their structure, multiplication, and genetics.

**Requisites:** Intro crses in bact, biochem genetics**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MICROBIO/FOOD SCI 650 – ADVANCED MICROBIOLOGY OF FOODBORNE PATHOGENS**

3 credits.

Infectious and toxigenic agents of foodborne disease: detection, identification, and control methods; ecology and survival strategies of pathogens in foods; virulence mechanisms of foodborne pathogens.

**Requisites:** Bact/Food Sci 325 or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2010**MICROBIO/BOTANY/GENETICS/M M & I/PL PATH 655 – BIOLOGY AND GENETICS OF FILAMENTOUS FUNGI**

3-4 credits.

Fungal genetics, genomics, and physiology using plant pathogenic fungi and the genetic models *Aspergillus nidulans* and *Neurospora crassa* as model systems to explore the current knowledge of fungal genetics and plant/fungal interactions.**Requisites:** Cons inst; PI Path 300 332 recommended; GENETICS 466 or equiv; general microbiol crse**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**MICROBIO/BMOLCHEM 668 – MICROBIOLOGY AT ATOMIC RESOLUTION**

3 credits.

Three-dimensional protein structures form the basis for discussions of high resolution microbiology; how particular problems are solved with given protein architectures and chemistries and how themes of protein structure are modified and recycled. g. BIOCHEM 501), molecular biol (e.g. Bact 526 or 612) required, one semester of physical chem preferred

**Requisites:** Biochem (e.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MICROBIO 681 – SENIOR HONORS THESIS**

2-3 credits.

Individual lab research for majors for an honors degree in bacteriology (LS students must take 3 cr per sem).

**Requisites:** Hon prog candidacy**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MICROBIO 682 – SENIOR HONORS THESIS**

2-4 credits.

Continuation of 681.

**Requisites:** Honors program candidacy Bact 681**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MICROBIO 691 – SENIOR THESIS**

2 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**MICROBIO 692 – SENIOR THESIS**

2 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**MICROBIO 699 – SPECIAL PROBLEMS**

1-4 credits.

**Requisites:** Sr or Grad st cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MICROBIO 710 – MICROBIAL SYMBIOSIS**

3 credits.

Covers the themes and diversity of plant and animal associations with microbes with an emphasis on beneficial relationships. Examples will be drawn from recent literature.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016

**MICROBIO/BIOCHEM 726 – REGULATION OF GENE EXPRESSION IN PROKARYOTES**

3 credits.

An intensive examination of a limited number of systems to illustrate the range of molecular mechanism utilized to control gene expression in bacteria.

**Requisites:** Bact/Genetics/BIOCHEM/GENETICS/MICROBIO 612 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**MICROBIO 731 – SEMINAR**

1 credit.

Reviews of microbiological subjects, and reports on research work.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MICROBIO/M M & I 740 – MECHANISMS OF MICROBIAL PATHOGENESIS**

3 credits.

Lecture-discussion. Host-pathogen relationships in microbial diseases. Entry level course for infectious diseases sequence (see Med Micro 760, 790).

**Requisites:** Cons inst, MMI 301 or equiv a course in immunology

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MICROBIO/M M & I/PATH-BIO 790 – IMMUNOLOGY OF INFECTIOUS DISEASE**

3 credits.

Immunobiology and immunogenetics of resistance to infectious disease agents of man and animals; immunoregulatory mechanisms associated with evasion of host immunity.

**Requisites:** MMI 720 or equiv, MMI 740 or equiv, cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**MICROBIO 810 – CURRENT ISSUES IN MICROBIOLOGY**

1 credit.

Required course for first-year Ph.D. graduate students in the Microbiology Doctoral Training Program (MDTP); combines faculty lectures, review of primary literature, student presentations, and small group discussions to explore the diversity of scientific topics comprising the field of contemporary microbiology.

**Requisites:** Declared in Microbiology doctoral program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MICROBIO 811 – ADVANCED PROBLEMS IN MICROBIOLOGY**

1 credit.

Required course for first-year Ph.D. graduate students in the Microbiology Doctoral Training Program (MDTP); combines faculty lectures, review of primary literature, student presentations, and small group discussions to explore the diversity of scientific topics comprising the field of contemporary microbiology.

**Requisites:** 1st yr st in Microbiol Doctoral Training Progm

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MICROBIO 875 – SPECIAL TOPICS**

1-4 credits.

Of current interest to graduates.

**Requisites:** Variable prerequisites depending on topic

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MICROBIO 901 – ADVANCED SEMINAR**

1 credit.

Recent advances in specialized areas of microbiology.

**Requisites:** Bact 729 Grad st cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**MICROBIO/BIOCHEM/BMOLCHEM/M M & I 914 – SEMINAR-MOLECULAR BIOSCIENCES (ADVANCED)**

1 credit.

During the fall semester, molecular biosciences trainees who have not achieved dissertator status will present seminars based primarily on literature related to their projects. During the spring semester, molecular biosciences trainees with dissertator status will present seminars based upon their own research.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MICROBIO/BIOCHEM 917 – REGULATION OF GENE EXPRESSION (ADVANCED SEMINAR)**

1 credit.

Participants will discuss recent literature in topics related to prokaryotic and eukaryotic gene regulation. These topics include but are not limited to regulation of transcription, translation, and genome organization. Each week, one student participant will lead a critical discussion on a recent publication in the field of gene regulation. The discussion leader will explain the background materials, methodology, experimental results, and broader implications of the publication. All participants will be expected to take an active role in the discussion.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MICROBIO/BIOCHEM/CBE 932 – BIOTECHNOLOGY TRAINING PROGRAM SEMINAR**

1 credit.

Biotechnology Training Program trainees will present their research for critical review by audience. Required of Biotechnology Training Program trainees

**Requisites:** Grad st.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MICROBIO 990 – RESEARCH**

1-9 credits.

Full lab and literature review of a problem in microbiology. Leads to preparation of thesis and publication.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MICROBIO 999 – SPECIAL PROBLEMS**

1-6 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2001**MILITARY SCIENCE (MIL SCI)****MIL SCI 101 – FOUNDATIONS OF OFFICERSHIP**

1 credit.

Introduces students to life as a commissioned officer profession. Establishes fundamentals of leadership, Army values and skills required of a successful Army officer.

**Requisites:** Open to Freshmen Sophomore only**Repeatable for Credit:** No**Last Taught:** Fall 2017**MIL SCI 102 – BASIC LEADERSHIP**

1 credit.

Establishes foundation of basic leadership fundamentals such as problem solving, communications, briefing and effective writing, goal setting, techniques for improving listening and speaking skills and an introduction to counseling.

**Requisites:** Open to Freshmen Sophomore only**Repeatable for Credit:** No**Last Taught:** Spring 2017**MIL SCI 110 – LEADERSHIP LAB 1A**

1 credit.

Students use the coursework acquired in class to develop proficiency with hands-on experience in a field environment. Specific activities include military navigation, employment of communications and weapon systems, rappelling, and small unit tactics. Open to Fr

**Requisites:** Cons of department head; con reg in Mil Sci 101.**Repeatable for Credit:** No**Last Taught:** Fall 2017**MIL SCI 111 – LEADERSHIP LAB 1B**

1 credit.

Students continue with tasks from 110 lab. Open to Fr

**Requisites:** Cons of department head; con reg in Mil Sci 102.**Repeatable for Credit:** No**Last Taught:** Spring 2017**MIL SCI 201 – INDIVIDUAL LEADERSHIP STUDIES**

2 credits.

Students identify successful leadership characteristics through observation of others and self through experiential learning exercises. Students record observed traits (good and bad) in a dimensional leadership journal and discuss observations in small group settings. Students will also learn map reading and land navigation skills, including conversion of magnetic and grid azimuths and resection.

**Requisites:** Open to Freshmen Sophomore only**Repeatable for Credit:** No**Last Taught:** Fall 2017**MIL SCI 202 – LEADERSHIP AND TEAMWORK**

2 credits.

Study examines how to build successful teams, various methods for influencing action, effective communication in setting and achieving goals, the importance of timing the decision, creativity in the problem solving process and obtaining team buy-in through immediate feedback.

**Requisites:** Open to Freshmen Sophomore only**Repeatable for Credit:** No**Last Taught:** Spring 2017**MIL SCI 210 – LEADERSHIP LAB 2A**

1 credit.

Students in this course will implement small unit tactical training, learning Army methods for approaching and reacting to tactical situations. This course will cover land navigation skills, information processing skills, and Army leadership principles. Open to Fr

**Requisites:** Cons of department head; con reg in Mil Sci 201.**Repeatable for Credit:** No**Last Taught:** Fall 2017

**MIL SCI 211 – LEADERSHIP LAB 2B**

1 credit.

Students in this course learn Army organization and planning methods, and have the opportunity to practice and implement these methods in practical exercises. Open to Fr

**Requisites:** Cons of department head; con reg in Mil Sci 202.

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MIL SCI 301 – LEADERSHIP AND PROBLEM SOLVING**

2 credits.

Students conduct self-assessment of leadership style, develop personal fitness regimen, and learn to plan and conduct individual/small unit tactical training while testing reasoning and problem solving techniques. Students receive direct feedback on leadership abilities.

**Requisites:** Consent of head of department

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MIL SCI 302 – LEADERSHIP AND ETHICS**

2 credits.

Examines the role communications, values and ethics play in effective leadership. Topics include ethical decision-making, consideration of others and survey Army leadership doctrine. Emphasis is on improving oral and written communication abilities, and increasing small unit tactics skills.

**Requisites:** Consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MIL SCI 310 – LEADERSHIP LAB 3A**

1 credit.

Small unit tactical troop leading procedures are taught and practiced. Hand signals, operations orders, and land navigation skills are perfected for preparation for national advanced leadership camp.

**Requisites:** Cons of department head; con reg in Mil Sci 301

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MIL SCI 311 – LEADERSHIP LAB 3B**

1 credit.

Students in this course learn in-depth leadership procedures, and have the opportunity to practice the Army planning process for groups of 30 personnel. They also learn how to conduct Army training and classes so that they can teach other cadets based on their prior knowledge.

**Requisites:** Cons of department head; con reg in Mil Sci 302

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MIL SCI 401 – LEADERSHIP AND MANAGEMENT**

2 credits.

Develop students' proficiency in planning and executing complex operations, functioning as a member of a staff, and mentoring subordinates. Students explore training management methods of effective staff collaboration, and developmental counseling techniques.

**Requisites:** Consent of head of department

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MIL SCI 402 – OFFICERSHIP**

2 credits.

Study includes fundamentals of military law, administrative and logistics procedures and practical exercises on establishing an ethical command climate. Presentations, briefings and leadership positions are used to train and evaluate students throughout the semester.

**Requisites:** Consent of head of department

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MIL SCI 410 – LEADERSHIP LAB 4A**

1 credit.

Students in this course learn how to allocate resources and time to adequately train large groups of people. They practice creating training plans, and bringing together all of the elements necessary to complete training. They also have the opportunity to aid in the evaluation of others leadership, which gives them the ability to better review their own leadership.

**Requisites:** Cons of department head; con reg in Mil Sci 401

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MIL SCI 411 – LEADERSHIP LAB 4B**

1 credit.

Students in this course learn the final elements of an Army officer's job. They mentor and plan training, as well as monitor the effectiveness of others. They learn fine points of improving others performance and getting the most out of subordinates.

**Requisites:** Cons of department head; con reg in Mil Sci 402

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MIL SCI 491 – AMERICAN MILITARY HISTORY**

3 credits.

Surveys the American military experience from the Colonial Era to the present. Students will focus on learning about: the nature of combat, the impact of new technology on warfare, the relationship between civilian and military authorities, the impact of leadership, and the influence of political, social, and economic factors on military operations.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**MOLECULAR BIOLOGY (MOL BIOL)****MOL BIOL 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Sr st cons honors advisor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MOL BIOL 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Sr st cons honors advisor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MOL BIOL 686 – SENIOR HONORS SEMINAR IN MOLECULAR BIOLOGY**

1 credit.

A seminar on the origins, present frontiers, and future prospects of molecular biology. Students will read, write about, and discuss papers from the original literature. Social and ethical issues related to technologies based on molecular biology are considered.

**Requisites:** Sr st; juniors may register with cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MOL BIOL 691 – SENIOR THESIS**

3 credits.

**Requisites:** Sr st and cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MOL BIOL 692 – SENIOR THESIS**

3 credits.

**Requisites:** Sr st and cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MOL BIOL 699 – DIRECTED STUDIES IN MOLECULAR BIOLOGY**

1-4 credits.

Individual research projects conducted under professorial supervision.

Graded on a lettered basis

**Requisites:** Jr or Sr st; cons inst.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MOLECULAR AND ENVIRONMENTAL TOXICOLOGY CENTER (M&ENVTOX)****M&ENVTOX/ENVIR ST/PL PATH 368 – ENVIRONMENTAL LAW, TOXIC SUBSTANCES, AND CONSERVATION**

2 credits.

Development of and need for "environmental law"; an introduction to the legal system; public and private rights in the environment; regulation of pesticides and toxic substances; environmental legislation and rulemaking; environmental impact statements; professionals as expert witnesses. No prior knowledge of law assumed. For scientists and others dealing with environmental issues in academia, industry and government.

**Requisites:** So st**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**M&ENVTOX/ENTOM/F&W ECOL/PL PATH/SOIL SCI 606 – COLLOQUIUM IN ENVIRONMENTAL TOXICOLOGY**

1 credit.

Current topics in molecular and environmental toxicology and problems related to biologically active substances in the environment. Topics vary each semester. Lectures are by resident and visiting professors and other researchers.

**Requisites:** Biology/ZOOLOGY/BIOLOGY 101, Biology/BOTANY/

BIOLOGY 130, or equivalent

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**M&ENVTOX/NUTR SCI 623 – ADVANCED NUTRITION: MINERALS**

1 credit.

Topics discussed in regard to minerals are: metabolic roles; absorption, excretion, transport and cellular metabolism; nutritional and toxicological standards for humans and animal models; bioavailability; genetic interactions; and research methodologies.

**Requisites:** BIOCHEM/NUTR SCI/BIOCHEM 510, PHYSIOL 335 and

graduate standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016

**M&ENVTOX/MEDICINE/ONCOLOGY/PATH/PHM SCI/PHM COL-M/  
POP HLTH 625 – TOXICOLOGY I**

3 credits.

Basic principles of toxicology and biochemical mechanisms of toxicity in mammalian species and man. Correlation between morphological and functional changes caused by toxicants in different organs of the body.

**Requisites:** BIOCHEM 501, PHYSIOL 335, PATH 404 and PHM SCI 401

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**M&ENVTOX/MEDICINE/PATH/PHM SCI/PHM COL-M/POP HLTH 626 –  
TOXICOLOGY II**

3 credits.

Survey of the basic methods and fundamental biochemical mechanisms of toxicity. Toxicity in mammalian organ systems, techniques for evaluating toxicity, as well as mechanisms of species specificity, and environmental interactions (with toxicant examples) are presented.

**Requisites:** M&ENVTOX/MEDICINE/ONCOLOGY/PATH/PHM COL-M/PHM SCI/POP HLTH/M&ENVTOX/MEDICINE/ONCOLOGY/PATH/PHM SCI/PHM COL-M 625

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**M&ENVTOX/CIV ENGR/SOIL SCI 631 – TOXICANTS IN THE  
ENVIRONMENT: SOURCES, DISTRIBUTION, FATE, & EFFECTS**

3 credits.

Nature, sources, distribution, and fate of contaminants in air, water, soil, and food and potential for harmful exposure.

**Requisites:** CHEM 343 345 or equiv; CHEM 561 or equiv; PHYSICS 103 104 or equiv; MATH 211; or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**M&ENVTOX/AGRONOMY/ENTOM/F&W ECOL 632 – ECOTOXICOLOGY:  
THE CHEMICAL PLAYERS**

1 credit.

Introduction to natural and man-made toxins/toxicants, their distribution, transport, and fate in the environment. Includes lectures, current research presentations, and discussions.

**Requisites:** 2 sem intro biol 1 sem organic chem, or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**M&ENVTOX/AGRONOMY/ENTOM/F&W ECOL 633 – ECOTOXICOLOGY:  
IMPACTS ON INDIVIDUALS**

1 credit.

Addresses absorption, biotransformation, elimination of toxins in a wide variety of taxa (plants, invertebrates, vertebrates), and includes lectures, current research presentations, and discussions.

**Requisites:** M&EnvTox 632, or 2 sem intro biol M&Envtox 631, or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**M&ENVTOX/AGRONOMY/ENTOM/F&W ECOL 634 – ECOTOXICOLOGY:  
IMPACTS ON POPULATIONS, COMMUNITIES AND ECOSYSTEMS**

1 credit.

Focuses on the impact of toxicants on populations, communities, ecosystems, and includes risk evaluation. Includes lectures, current research presentations, and discussions.

**Requisites:** M&EnvTox 633, or M&EnvTox 625, 626 631, or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**M&ENVTOX 699 – SPECIAL PROBLEMS**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017



### M&ENVTOX/POP HLTH 789 – PRINCIPLES OF ENVIRONMENTAL HEALTH: A SYSTEMS THINKING APPROACH

3 credits.

This course provides an overview of the field of environmental health, using a systems thinking approach. Systems thinking recognizes that environmental health problem solving is complex and that solutions in one area may have positive or negative impacts on other areas. As an overview it provides an introduction to the history of environmental health within the field of public health from the local to the federal and global level. It will introduce multiple disciplines, methods and approaches to numerous environmental health topics. It includes introduction to methods and tools necessary for assessing human health risks from a variety of environmental hazards and exposures found in air, land, and water with a focus on physical and chemical risks. Additional details regarding specific hazard, exposure and health outcome data and their relationship to environmental health risk assessment, environmental health decision-making and management from a public health practice perspective will be discussed. Students will become familiar with the practice of environmental health lectures and case studies. A primary goal of this course is to address core environmental health competencies for Masters of Public Health students. In addition, this course is designed to help students think critically about complex problems and practice effective communication both in written as well as oral forms of communication. As such, it will provide an overview of fundamental information and tools that public health practitioners will need to know how to use. It will also lay the foundation for more high-level courses in the field of environmental health for those wishing to pursue aspects of this field in more detail. It is aimed at students with a diverse knowledge set and background coming into the course, a general sense of basic biology and chemistry will be helpful, but not necessary.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### M&ENVTOX 800 – SEMINAR

1 credit.

Current research in environmental toxicology and pathology and other topics of interest and importance to environmental toxicologists.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### M&ENVTOX 990 – RESEARCH

1-9 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## MUSIC (MUSIC)

### MUSIC 34 – STUDY ABROAD: MUSIC PERFORMANCE ENSEMBLE

1 credit.

A music performing ensemble course taken in a UW-Madison resident study abroad program.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Repeatable for Credit:** Yes, unlimited number of completions

### MUSIC 40 – WIND ENSEMBLE

1 credit.

Rehearsal and performance of music from wind ensemble and band literature. Open to all students by audition. Open to Fr

**Requisites:** Audition and/or cons inst.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### MUSIC 41 – CONCERT BAND

1 credit.

Rehearsal and performance of music from wind ensemble and band literature.

**Requisites:** Audition and/or cons inst

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### MUSIC 42 – VARSITY BAND

1 credit.

Rehearsal and performance of music for athletic events. Open to Fr

**Requisites:** Audition and/or cons inst.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### MUSIC 43 – UNIVERSITY BAND

1 credit.

Exploration and performance of standard band literature. Open to all students; no audition required.

**Requisites:** Open to Fr

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### MUSIC 50 – CONCERT CHOIR

1 credit.

Choral vocal training, study and performance of concert literature. Open to all students by audition. Open to Fr

**Requisites:** Audition and/or cons inst.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### MUSIC 52 – WOMEN'S CHORUS

1 credit.

Choral vocal training, study and performance of concert literature. Open to all students by audition. Open to Fr

**Requisites:** Audition and/or cons inst.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUSIC 53 – CHORAL UNION**

1 credit.

Choral vocal training, study and performance open to the entire community by audition. Open to Fr

**Requisites:** Audition and/or cons inst.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUSIC 55 – MASTERS' SINGERS**

1 credit.

Choral vocal training, study and performance of concert literature. Open to all students by audition. Open to Fr

**Requisites:** Audition and/or cons inst.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUSIC 56 – CHORALE**

1 credit.

Choral vocal training, study and performance of concert literature. Open to all students by audition. Open to Fr

**Requisites:** Audition and/or cons inst.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUSIC 58 – MADRIGAL SINGERS**

1 credit.

Ensemble specializing in 16th- and 17th-century secular music. Open to all students and singers outside the University by audition. Open to Fr

**Requisites:** Audition and/or cons inst.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUSIC 59 – UNIVERSITY CHORUS**

1 credit.

Exploration and performance of standard choral literature. No audition

**Requisites:** Open to Fr

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUSIC 60 – ALL-UNIVERSITY STRING ORCHESTRA**

1 credit.

Rehearsal and study of string orchestra literature at the introductory level. No audition required.

**Requisites:** Open to Fr

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUSIC 61 – CHAMBER ORCHESTRA**

1 credit.

Rehearsal, study and performance of early classical symphonies, opera, and concerto literature. Open to Fr

**Requisites:** Audition and/or cons inst.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**MUSIC 62 – UNIVERSITY SYMPHONY ORCHESTRA**

1 credit.

Playing and public performance of music from symphonic repertoire.

Open to Fr

**Requisites:** Audition and/or cons inst.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUSIC 101 – THE MUSICAL EXPERIENCE**

3 credits.

Musical genres – songs, opera and musical theater, chamber and orchestral music, and jazz – in the context of social and cultural history.

Open to Freshmen

**Requisites:** Not open for credit for Music majors.

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MUSIC/FOLKLORE 103 – INTRODUCTION TO MUSIC CULTURES OF THE WORLD**

2 credits.

Music in various parts of the non-Western world (Africa, Middle East, India, Southeast Asia, East Asia).

**Requisites:** Open to Fr

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MUSIC 104 – STUDY ABROAD: ELEMENTARY MUSIC APPRECIATION/THEORY/HISTORY**

1-3 credits.

An elementary-level academic course in music taken in a UW-Madison resident study abroad program. Course does not require any previous background in music.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**MUSIC 105 – OPERA**

3 credits.

From Monteverdi to the present. Opera as a social and cultural phenomenon and an expression of national styles.

**Requisites:** Not open to music majors

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MUSIC 106 – THE SYMPHONY**

3 credits.

Orchestral music from Haydn to present, relation to other arts.

**Requisites:** Not open to music majors**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MUSIC 107 – MUSIC & FILM**

3 credits.

A survey of film music by the major film composers. Will include study of film scores by, among others, Alfred Newman, Max Steiner, Bernard Herrmann, and Ennio Morricone, as well as a discussion of current trends and film composers. In addition, there will be discussion of the contributions of composers such as Aaron Copland, Serge Prokofiev and Leonard Bernstein. The techniques and styles of film music will be explored through lectures, required listening, readings and viewing of relevant films.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUSIC 110 – INTRODUCTION TO MUSIC TECHNOLOGY**

2 credits.

Introduction to notation, sequencing, and digital audio softwares.

**Requisites:** Open to music majors only (MUS, MUSC, MUSD, or dept authorization)**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2013**MUSIC 111 – ELEMENTS OF MUSIC**

3 credits.

Basic notation; intervals; scales and modes; rhythm, melody and harmony; writing of simple musical material; aural and visual analysis.

**Requisites:** Not open to music majors**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2011**MUSIC 113 – MUSIC IN PERFORMANCE**

1 credit.

Descriptive lectures on chamber music with performances by instructor and others; open to all students.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, for 3 number of completions**Last Taught:** Fall 2017**MUSIC 121 – MUSICA PRACTICA 1**

3 credits.

Strategies for composing, understanding, and writing about music; must be taken concurrently with MUSIC 171.

**Requisites:** Placement test; concurrent registration in MUSIC 171 required; concurrent registration in Music Perf 101 strongly recommended**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUSIC 122 – MUSICA PRACTICA 2**

3 credits.

Continuation of MUSIC 121; must be taken concurrently with MUSIC 172.

**Requisites:** MUSIC 121/171; concurrent registration in MUSIC 172 required; concurrent registration in Music Perf 102 strongly recommended**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MUSIC 151 – BASIC CONCEPTS OF MUSIC THEORY**

3 credits.

Basic tools of music theory and compositional forms. Explores development of music through general survey of musical styles. Practical application of concepts includes listening maps and simple composition projects. Includes performance opportunities in simulated real world settings. Open to Fr. Stdts may receive cr for only one of the following: MUSIC 111, 151, 351

**Requisites:** Not open for cr for music majors.**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUSIC 152 – BASIC CONCEPTS OF MUSIC 2**

3 credits.

A course on the "building blocks" of music for non-majors. It is the sequel to Basic Concepts of Music Theory, which is its prerequisite. The goal of the course is to deepen one's understanding of music through hands-on experience with its component materials: melody and harmony, rhythm and meter. It has the additional aim of increasing one's fluency in read music, broadening one's acquaintance with scores and various other musical media old and new, and improving one's skills as a listener. Students will explore basic musical concepts in a lab-like environment and solve various compositional problems and analytical puzzles.

**Requisites:** MUSIC 111 or MUSIC 151, not open to music majors.**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**MUSIC 171 – MUSICA PRACTICA: AURAL SKILLS 1**

1 credit.

**Requisites:** Must be taken concurrently with MUSIC 121**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUSIC 172 – MUSICA PRACTICA: AURAL SKILLS 2**

1 credit.

Open to Fr

**Requisites:** MUSIC 121; must be taken concurrently with MUSIC 122.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MUSIC 201 – MUSIC AND SOCIETY**

2 credits.

Music during defined historical periods with emphasis on political and social contexts. May concentrate on a specific era or geographical area. Knowledge of music not required.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**MUSIC 204 – STUDY ABROAD: INTERMEDIATE MUSIC THEORY OR HISTORY**

1-3 credits.

An intermediate-level academic course in music taken in a UW-Madison resident study abroad program. Course must be taught at an intermediate level as determined by the School of Music based on prerequisites and/or course syllabus.

**Requisites:** Enrollment in a UW-Madison resident study abroad program**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**MUSIC 205 – THE BIG BANDS**

2 credits.

A study of significant dance orchestras from 1920 to 1950: development of style and influence on popular musical taste.

**Requisites:** Junior standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUSIC 206 – THE LEGENDARY PERFORMERS**

2 credits.

A survey of pioneer performers who influenced popular musical taste from 1920 to 1950.

**Requisites:** Junior standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MUSIC 211 – SURVEY OF THE HISTORY OF WESTERN MUSIC**

3 credits.

Introduction to development of music in the European tradition.

**Requisites:** MUSIC 122 or 281**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUSIC 212 – SURVEY OF THE HISTORY OF WESTERN MUSIC**

3 credits.

Continuation of 211.

**Requisites:** MUSIC 211**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MUSIC 221 – MUSICA PRACTICA 3**

3 credits.

Continuation of MUSIC 122; must be taken concurrently with MUSIC 271.

**Requisites:** MUSIC 122/172; concurrent registration in MUSIC 271 required; concurrent registration in Music Perf 103 strongly recommended**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUSIC 222 – MUSICA PRACTICA 4**

3 credits.

Continuation of MUSIC 221; must be taken concurrently with MUSIC 272.

**Requisites:** MUSIC 221/271; concurrent registration in MUSIC 272 required; concurrent registration in Music Perf 104 strongly recommended**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**MUSIC 229 – JAZZ THEORY & COMPOSITION**

3 credits.

Introduction to the applied theory of functional tonal and modal jazz harmony; analysis of song forms from the standard jazz repertoire; study of reharmonization techniques, chord substitution, and types of chord voicings; principles of melodic writing and motivic development, jazz counterpoint, and voice-leading considerations; and writing for common instruments in jazz ensembles. Students will analyze compositions from the standard jazz repertoire and apply the principles studied to create their own compositions for small jazz ensemble.

**Requisites:** Must have completed MUSIC 122 and MUSIC 172**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MUSIC 236 – BASCOM COURSE**

3 credits.

A low-enrollment course developing skills in critical reading, logical thinking, use of evidence, and use of library resources. Emphasis on writing in the conventions of specific fields. Open to Fr.

**Requisites:** Successful completion of or exemption from Com A requirement.**Course Designation:** Gen Ed - Communication Part B

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**MUSIC 252 – INTRODUCTION TO CONDUCTING AND PEDAGOGY**

2 credits.

This course will introduce students to the basic elements in conducting. Students will learn elementary conducting skills including technique, score study, rehearsal preparation, rehearsal structure, private studio construction, teaching techniques, and professional marketing.

**Requisites:** MUSIC 222, 272, 211, 212**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MUSIC 253 – CONDUCTING**

2 credits.

Conducting techniques, emphasis on practical application to vocal and instrumental groups.

**Requisites:** Cons inst or MUSIC 122**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUSIC 254 – CONDUCTING**

2 credits.

Continuation of 253.

**Requisites:** MUSIC 253**Repeatable for Credit:** No**Last Taught:** Spring 2017**MUSIC 256 – UNIVERSITY OPERA**

1-2 credits.

Opera role: preparation, rehearsal and performance in University opera production. Course credit available to singers cast by audition in major or minor roles.

**Requisites:** Cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC 257 – OPERA WORKSHOP**

2 credits.

Performance of scenes from standard operas, including singing, accompanying, and dramatic action; instruction in voice projection, posture, and gesture; problems of staging, lighting, costuming, and scenery.

**Requisites:** Cons inst**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC 262 – JAZZ ENSEMBLE**

1 credit.

Assignments in performing ensemble literature. Open to Fr

**Requisites:** Audition and/or cons inst.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC 264 – ENSEMBLE: WISCONSIN SINGERS**

1 credit.

The training of singers and musicians for show choir.

**Requisites:** Audition; cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC 265 – ENSEMBLE-WOODWIND**

1 credit.

Assignments in performing ensemble literature.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC 266 – BLACK MUSIC ENSEMBLE**

1 credit.

Assignments in performing ensemble literature. Open to Fr

**Requisites:** Audition and/or cons inst.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016



**MUSIC 267 – ENSEMBLE-BRASS**

1 credit.

Assignments in performing ensemble literature. Open to Fr

**Requisites:** Cons inst.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC 268 – ENSEMBLE-PERCUSSION**

1 credit.

Assignments in performing ensemble literature. Open to Fr

**Requisites:** Cons inst.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC 269 – ENSEMBLE-STRING**

1 credit.

Assignments in performing ensemble literature. Open to Fr

**Requisites:** Cons inst.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC 270 – ENSEMBLE-GUITAR**

1 credit.

Rehearsal, coaching and preparing guitar literature for performance of duos, trios, and quartets. Musicians other than guitarists are permitted to enroll.

**Requisites:** Cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC 271 – MUSICA PRACTICA: AURAL SKILLS 3**

1 credit.

**Requisites:** MUSIC 122; must be taken concurrently with MUSIC 221**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUSIC 272 – MUSICA PRACTICA: AURAL SKILLS 4**

1 credit.

**Requisites:** MUSIC 221; must be taken concurrently with MUSIC 222**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MUSIC 273 – CONTEMPORARY CHAMBER ENSEMBLE**

1 credit.

Assignments in performing ensemble literature.

**Requisites:** Cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**MUSIC/CURRIC 300 – INTRODUCTION TO MUSIC EDUCATION**

2 credits.

Introduction to the field of music education, including philosophy, history, and current practices and trends. Survey of music education in and out of schools as situated within diverse, pluralistic communities.

**Requisites:** CURRIC/MUSIC/CURRIC 303 or concurrent enrollment**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MUSIC/CURRIC 301 – MUSIC LEARNING AND TEACHING 1**

2 credits.

The learning and teaching of music at the elementary and middle school levels. Admission to the music education certification program. Concurrent enrollment in CURRIC/MUSIC/CURRIC 337

**Requisites:** Successful completion of CURRIC/MUSIC/CURRIC 300.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUSIC/CURRIC 302 – MUSIC LEARNING AND TEACHING 2**

2 credits.

The learning and teaching of music at the high school level. Concurrent enrollment in CURRIC/MUSIC/CURRIC 337

**Requisites:** Successful completion of CURRIC/MUSIC/CURRIC 301 with a grade of "C" or higher.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MUSIC/CURRIC 303 – FIELDWORK IN MUSIC COMMUNITIES**

1 credit.

Fieldwork in music communities in the Madison area.

**Requisites:** CURRIC/MUSIC/CURRIC 300 or concurrent enrollment**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Workplace - Workplace Experience Course

**Repeatable for Credit:** No**Last Taught:** Spring 2017



**MUSIC/CURRIC 304 – COMPOSITION, ARRANGEMENT, AND ORCHESTRATION FOR THE MUSIC TEACHER**

2 credits.

Introduction to the teaching of musical composition, arrangement, and orchestration. Special emphasis on how music technologies interact with conceptions of composition, arrangement, and orchestration; implications for music learning and teaching.

**Requisites:** Successful completion of MUS-PERF 104 or equivalent

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MUSIC 305 – POPULAR MUSIC IN THE USA: 1920-1950**

2 credits.

Survey of the works of Gershwin, Rodgers, Kern, Porter, and others; nature of the music; semantics of the lyrics, and popular song as the reflection of a social era.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

**MUSIC 306 – GREAT COMPOSERS**

3 credits.

Examination of the life, cultural background, and works of a major figure in Western music history. Some familiarity with music is assumed; ability to read music not required.

**Requisites:** So st one university-level course in Music

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**MUSIC/AFROAMER 308 – BLACK MUSIC (1920-PRESENT): RHYTHM SECTION AND COMBOS**

2 credits.

Introduction to the history of jazz; traces Black American music from African origins.

**Requisites:** So st and cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**MUSIC/AFROAMER 309 – BLACK MUSIC (1920-PRESENT): VOCALIST/TROMBONE/MISC INSTRUMENTAL**

2 credits.

Introduction to the history of jazz: traces Black American music from African origins.

**Requisites:** So st and cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**MUSIC/AFROAMER 310 – BLACK MUSIC (1920-PRESENT): THE TRUMPET**

2 credits.

Introduction to the history of jazz: traces Black American Music from African origins.

**Requisites:** So st and cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**MUSIC/AFROAMER 311 – BLACK MUSIC (1920-PRESENT): THE SAXOPHONE**

2 credits.

Introduction to the history of jazz: traces Black American music from African origins.

**Requisites:** So st and cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**MUSIC/AFROAMER/DANCE 318 – CULTURAL CROSS CURRENTS: WEST AFRICAN DANCE/MUSIC IN THE AMERICAS**

3 credits.

The influence of traditional West African dance/music heritage in historical, artistic, social contexts in the development of new hybrid forms of music/dance created by cross-pollination of cultures of Africans, Europeans and indigenous peoples in the New World.

**Requisites:** Sophomore standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

**MUSIC 319 – TOPICS IN MUSIC AND ETHNICITY IN THE UNITED STATES**  
3 credits.

Explores music of ethnic groups in the U.S., including that of marginalized minorities, in its cultural context. Topics may include the music of African American, Asian American, Native American and Jewish communities.

**Requisites:** Repeatable for credit with different topic  
**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement  
 Breadth - Humanities  
 Level - Intermediate  
 L&S Credit - Counts as Liberal Arts and Science credit in L&S  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Spring 2017

**MUSIC 331 – JAZZ IMPROVISATION**  
3 credits.

Theoretical concepts, development of aural skills, and analysis procedures related to the jazz idiom.  
**Requisites:** Demonstrated performance ability on instrument; cons inst  
**Course Designation:** Breadth - Humanities  
 Level - Intermediate  
 L&S Credit - Counts as Liberal Arts and Science credit in L&S  
 Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2017

**MUSIC 332 – JAZZ IMPROVISATION**  
3 credits.

Continuation of 331.  
**Requisites:** Demonstrated performance ability on instrument; cons inst  
**Course Designation:** Breadth - Humanities  
 Level - Advanced  
 L&S Credit - Counts as Liberal Arts and Science credit in L&S  
 Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Spring 2017

**MUSIC/CURRIC 337 – PRACTICUM IN TEACHING MUSIC**  
1 credit.

Observation and participation in K-12 music education settings.  
**Requisites:** Admission to Music Education; concurrent registration in CURRIC/MUSIC/CURRIC 301 or CURRIC/MUSIC/CURRIC 302  
**Course Designation:** Level - Advanced  
 L&S Credit - Counts as Liberal Arts and Science credit in L&S  
 Workplace - Workplace Experience Course  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Fall 2017

**MUSIC 340 – PEDAGOGY**  
1-2 credits.

Pedagogical methods for applied music offered on all instruments and voice by appropriate applied staff. Survey of music, methods, and materials.

**Requisites:** 400 level applied study or cons inst  
**Course Designation:** Level - Intermediate  
 L&S Credit - Counts as Liberal Arts and Science credit in L&S  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Fall 2017

**MUSIC/CURRIC 344 – TEACHING VOCAL STYLES IN THE MUSIC CLASSROOM**  
1 credit.

Introduction to the teaching and learning of diverse vocal styles. Special emphasis on what makes each style distinct, as well as the acquisition practices associated with each style.

**Requisites:** None  
**Course Designation:** Level - Elementary  
 L&S Credit - Counts as Liberal Arts and Science credit in L&S  
**Repeatable for Credit:** No  
**Last Taught:** Spring 2016

**MUSIC 345 – PRACTICUM IN STRING PEDAGOGY**  
2 credits.

Provides opportunity for advanced undergraduate students to teach privately or in small groups under faculty supervision.  
**Requisites:** MUSIC 340 or equiv, or cons inst  
**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Spring 2016

**MUSIC 346 – REPERTOIRE**  
1-2 credits.

A comprehensive study of sources, analysis, and style of repertoire for a particular instrument(s) or voice(s).  
**Requisites:** Jr st cons inst  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Fall 2017

**MUSIC 351 – BASIC CONCEPTS OF MUSIC**  
3 credits.

Offers a comprehensive approach to music. Students learn the basic tools of music theory, the basic compositional forms used in music, and a general survey of musical styles. Stdts may receive cr for only one of the following: MUSIC 111, 121, 151, 351  
**Requisites:** Open only to university special stdts with cons inst.  
**Course Designation:** Breadth - Humanities  
 Level - Elementary  
 L&S Credit - Counts as Liberal Arts and Science credit in L&S  
**Repeatable for Credit:** No  
**Last Taught:** Spring 2015

**MUSIC/CURRIC 354 – TEACHING MUSIC**

3 credits.

Development of musical skills and understandings. Ways of including music in the curriculum.

**Requisites:** EED and completion of previous sequence coursework

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**MUSIC 361 – NON-WESTERN MUSIC PERFORMANCE-STUDY GROUPS**

1 credit.

Study of non-Western musical traditions through performance: Javanese gamelan and Kiganda xylophone.

**Requisites:** Cons inst; may be repeated

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2016

**MUSIC/AFROAMER 400 – MUSIC CULTURES OF THE WORLD: AFRICA, EUROPE, THE AMERICAS**

3 credits.

Explores the performance, transmission, and consumption of traditional and popular musics of Africa, Europe, and the Americas. Employs musical-analytic and critical approaches to trace transnational musical circulation.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**MUSIC/FOLKLORE 401 – MUSICAL CULTURES OF THE WORLD**

3 credits.

Survey of selected musical cultures in Southeast Asia, Africa, East Asia, the Middle East, and the folk music of Europe and the Americas. Classification of musical instruments, theoretical systems, scale structures, role of music in society, relationship of music to other arts in their cultures.

**Requisites:** Cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**MUSIC/FOLKLORE 402 – MUSICAL CULTURES OF THE WORLD**

3 credits.

Continuation of 401.

**Requisites:** Cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**MUSIC/FOLKLORE 404 – MUSIC OF S.E. ASIA: TRADITION, INNOVATION, POLITICS, AND RELIGION**

3 credits.

Considers major musical traditions of Southeast Asia in relation to historical and contemporary contexts, emphasizing religion and politics. Covers indigenous music theories, instrumental and vocal practices, cross-cultural interactions, broadcast and recording media representations, and role of music in religious and political dynamics.

**Requisites:** So st cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**MUSIC 405 – SEMINAR: CULTURAL STUDY OF MUSIC**

3 credits.

Explores various topics in music research from the perspective of contemporary cultural theory and history. Develops skills in critical analysis of music and culture, drawing from literatures in postcolonial studies, critical race theory, studies of empire, colonialism, and capitalism.

**Requisites:** Consent of instructor

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**MUSIC/CURRIC 409 – STUDENT TEACHING IN GENERAL AND VOCAL MUSIC**

6-12 credits.

Supervised student teaching in general and vocal K-12 settings.

Department consent

**Requisites:** Successful completion of all requirements for student teaching.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MUSIC/CURRIC 410 – STUDENT TEACHING IN GENERAL AND INSTRUMENTAL MUSIC**

6-12 credits.

Supervised student teaching in general and instrumental K-12 settings.  
Department consent

**Requisites:** Successful completion of all requirements for student teaching.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MUSIC 411 – SURVEY OF MUSIC IN THE MIDDLE AGES**

3 credits.

Major genres and composers of monophonic and polyphonic music, sacred and secular in Western Europe and England (ca. 7th-14th centuries).

**Requisites:** MUSIC 211-212 or Grad st or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**MUSIC 412 – SURVEY OF MUSIC IN THE RENAISSANCE**

3 credits.

Major genres and composers of sacred and secular music (ca. 15th-16th centuries).

**Requisites:** MUSIC 211-212 or Grad st or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**MUSIC 413 – SURVEY OF MUSIC IN THE BAROQUE ERA**

3 credits.

Major genres and composers of sacred and secular music in Western Europe (ca. 1600-1750).

**Requisites:** MUSIC 211-212 or Grad st or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MUSIC 414 – SURVEY OF MUSIC IN THE CLASSIC ERA**

3 credits.

Major genres and composers in Western Europe (ca. 1750-1827).

**Requisites:** MUSIC 211-212 or Grad st or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MUSIC 415 – SURVEY OF MUSIC IN THE ROMANTIC ERA**

3 credits.

Major genres and composers in Europe (ca. 1820-1910).

**Requisites:** MUSIC 211-212 or Grad st or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MUSIC 416 – SURVEY OF MUSIC IN THE TWENTIETH CENTURY**

3 credits.

Major genres and composers in Europe and the United States.

**Requisites:** MUSIC 211-212 or Grad st or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**MUSIC 419 – MUSIC IN THE UNITED STATES**

3 credits.

Explores a variety of genres within their social and historical contexts including folk songs and ballads, the Native American Pow Wow, New England psalmody, popular song repertoires, musical theater and opera, concert music, blues and jazz.

**Requisites:** MUSIC 212 or cons inst

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**MUSIC/CURRIC 420 – TEACHING POPULAR INSTRUMENTAL MUSIC 1**

1 credit.

Development of critical perspectives, musical knowledge, and pedagogical skills needed to teach instrumental popular music. This class will focus on popular string instruments, their electronic counterparts, and emerging technologies for the performance and production of popular music.

**Requisites:** None

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MUSIC/CURRIC 421 – TEACHING POPULAR INSTRUMENTAL MUSIC 2**  
1 credit.

Development of critical perspectives, musical knowledge, and pedagogical skills needed to teach instrumental popular music. This class will focus on popular percussion instruments, their electronic counterparts, and emerging technologies for the performance and production of popular music.

**Requisites:** None

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MUSIC 461 – COLLEGIUM MUSICUM**

1 credit.

Early Music Ensemble specializing in performance of instrumental and vocal early music, using the school's collection of replicas of early instruments. Open to all students with or without experience of early music.

**Requisites:** Cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUSIC 466 – DICTION FOR SINGERS**

2 credits.

Italian, German, and French diction as related to vocal music; transcription into the International Phonetic Alphabet (IPA). This is a one-semester diction course required for BM: Education students in the choral music certification track.

**Requisites:** So st; cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**MUSIC 467 – LANGUAGE DICTION FOR SINGING I**

2 credits.

English, German, Italian, and French diction as related to vocal music. First semester to a two-semester diction sequence for voice performance majors.

**Requisites:** Cons inst

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MUSIC 468 – LANGUAGE DICTION FOR SINGING II**

2 credits.

Continuation of 467. Second semester of a two-semester diction sequence for voice performance majors.

**Requisites:** Cons inst

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**MUSIC 469 – INTERDISCIPLINARY STUDIES IN THE ARTS**

1-4 credits.

Guest artists will offer interdisciplinary courses on topics appropriate to their specializations.

**Requisites:** Consent of department

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUSIC 497 – SPECIAL TOPICS IN MUSIC**

1-3 credits.

**Requisites:** Cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUSIC 499 – DIRECTED STUDY**

1-3 credits.

Approval of project and assignment to staff member by Undergraduate Committee.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUSIC 500 – SEMINAR IN GLOBAL POPULAR MUSIC**

3 credits.

Explores various research topics relating to the history and present state of global popular music. Musical practices studied in relation to social and cultural forces, from ideas of nationhood to the global circulation of commodities; modern concepts of race to the emergence of modern western empires.

**Requisites:** Consent of Instructor

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**MUSIC 502 – FIGURED BASS AND BASSO CONTINUO**

3 credits.

Study of theory and practice of 17th and 18th-century figured bass and basso continuo realization and performance. Participants develop extemporized and written realizations that emulate the discipline, style traits, and musical vitality suggested in historical sources. No experience in working from figured bass notation is required, but course material progresses quickly to an advanced level. Both keyboard and non-keyboard music majors may enroll. Non-keyboard majors must have keyboard proficiency.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**MUSIC/AFROAMER 509 – SEMINAR IN AFRO-AMERICAN MUSIC HISTORY AND CRITICISM**

3 credits.

Introduction to historical research in and critical interpretation of Afro-American music. Consideration of standard musical and critical sources.

**Requisites:** Cons inst or Grad st**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2009**MUSIC 511 – HISTORICAL PERFORMANCE PRACTICES**

3 credits.

Examination of historical evidence for performance practice and its relevance to modern performances of the music of earlier eras.

**Requisites:** MUSIC 211 212, or equiv, or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MUSIC 513 – SURVEY OF OPERA**

3 credits.

Historical development of opera; investigation of main stylistic features of representative masterworks.

**Requisites:** Cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**MUSIC/FOLKLORE 515 – PROSEMINAR IN ETHNOMUSICOLOGY**

3 credits.

Introduction to ethnomusicology, including historical survey of major works in the field, classification of musical instruments, measurement of tuning systems and concepts of scale, mode and rhythm in non-Western music.

**Requisites:** MUSIC/FOLKLORE 401-402 or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2012**MUSIC 523 – ORCHESTRATION I**

3 credits.

History of orchestration and arranging; study of representative works by means of scores, recordings, and attendance at rehearsals of University organizations; scoring for band, chorus, and orchestra.

**Requisites:** Cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**MUSIC 524 – ORCHESTRATION II**

3 credits.

Continuation of 523.

**Requisites:** Cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**MUSIC/FOLKLORE 535 – AMERICAN FOLK AND VERNACULAR MUSIC**

3 credits.

An ethnographic, historical examination of immigrant and indigenous "roots" musical genres (blues, hillbilly, powwow, polka, conjunto, etc.) in relation to technological, commercial, artistic, and socio-political forces in American life.

**Requisites:** Jr st**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013



**MUSIC/ANTHRO/FOLKLORE/THEATRE 539 – THE FOLKLORE OF FESTIVALS AND CELEBRATIONS**

3 credits.

Survey of interdisciplinary literature on social/performative folklore aesthetics and environments by in-depth study of three festivals and ceremonies. Required field trips.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2014**MUSIC 540 – ADVANCED PEDAGOGY**

2 credits.

Advanced pedagogical methods for performance.

**Requisites:** Grad st and/or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2011**MUSIC 541 – SEMINAR IN CHORAL LITERATURE**

2 credits.

Seminar in Choral Literature from Renaissance to the Present.

**Requisites:** Consent of instructor**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**MUSIC 542 – CHORAL LITERATURE AND PERFORMANCE PRACTICES OF TODAY**

2 credits.

Continuation of 541.

**Requisites:** Cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MUSIC 543 – ADVANCED STRING PEDAGOGY**

2 credits.

Survey of contemporary and historical string pedagogy with implications for multiple teaching settings and applied research.

**Requisites:** Cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUSIC 544 – ADVANCED STRING PEDAGOGY**

2 credits.

Continuation of 543, with emphasis on individual projects and applied research.

**Requisites:** Cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2013**MUSIC 545 – PRACTICUM IN ADVANCED STRING PEDAGOGY**

2 credits.

Provides opportunity for graduate students to teach privately or in small groups under faculty supervision.

**Requisites:** MUSIC 543**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**MUSIC 546 – STRING LITERATURE**

2 credits.

Relationship of string solo, ensemble and orchestral literature to history, style, form, genre, and performance practice. Emphasis on bibliographic sources; research project required.

**Requisites:** Senior standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MUSIC 548 – PIANO PEDAGOGY II**

3 credits.

Exploration of appropriate materials, standard literature, pedagogical techniques, and structure for the intermediate to advanced student.

Research in specialized topics. Includes laboratory observation and teaching.

**Requisites:** Music 547 or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**MUSIC 550 – PERCUSSION LITERATURE**

2 credits.

This course will examine a select body of Western art music composed for percussion during the twentieth and twenty-first Centuries. Important compositional styles and repertoire will be presented and discussed with an emphasis on historical perspective and compositional technique.

**Requisites:** None**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**MUSIC 551 – CLASS PIANO PEDAGOGY**

3 credits.

Techniques for teaching older beginners or adults in class or individual instruction, piano literature sources and references, evaluation of repertoire and analysis of methods and structure.

**Requisites:** Cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**MUSIC 553 – ADVANCED CONDUCTING SEMINAR**

2 credits.

Study/analysis of conducting techniques; score reading/interpretation of masterpieces from standard repertoire. Topics course: repeatable.

**Requisites:** Cons inst or MUSIC 254**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**MUSIC 554 – ADVANCED CONDUCTING**

2 credits.

Continuation of 553.

**Requisites:** MUSIC 254**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MUSIC 556 – UNIVERSITY OPERA**

1-2 credits.

Opera role: preparation, rehearsal and performance in University opera production. Course credit available to singers cast by audition in major or minor roles.

**Requisites:** Cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC 557 – OPERA WORKSHOP**

2 credits.

Performance of scenes from standard operas or of whole operas; singing, accompanying, and dramatic action; instruction in voice projection, posture and movement; problems of staging, lighting, costume and scenery.

**Requisites:** Cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC 558 – MADRIGAL SINGERS**

1 credit.

Ensemble specializing in 16th and 17th century secular music.

**Requisites:** Graduate or professional standing**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC 559 – GRADUATE CHORAL UNION**

1 credit.

Weekly rehearsals in preparation of public performance of a masterwork for chorus and orchestra at end of semester. Audition required.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC 560 – PRACTICUM IN ADVANCED STUDIO TEACHING-PIANO**

1 credit.

Observation and teaching of an advanced undergraduate student under the direct supervision of a studio professor.

**Requisites:** MUSIC 548 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC 561 – ADVANCED ENSEMBLE-PIANO**

1 credit.

Assignments in performing ensemble literature. Open to all University students with graduate standing.

**Requisites:** Cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2009**MUSIC 562 – JAZZ ENSEMBLE**

1 credit.

Assignment in performing ensemble literature. Open to all University students with graduate standing.

**Requisites:** Audition and/or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**MUSIC 565 – ADVANCED ENSEMBLE-WOODWIND**

1 credit.

Assignments in performing ensemble literature. Open to all University students with graduate standing.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUSIC 567 – ADVANCED ENSEMBLE-BRASS**

1 credit.

Assignments in performing ensemble literature. Open to all University students with graduate standing.

**Requisites:** Cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUSIC 568 – ADVANCED ENSEMBLE-PERCUSSION**

1 credit.

Assignments in performing ensemble literature. Open to all University students with graduate standing.

**Requisites:** Cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUSIC 569 – ADVANCED ENSEMBLE-STRING**

1 credit.

Assignments in performing ensemble literature. Open to all University students with graduate standing.

**Requisites:** Cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUSIC 570 – UNIVERSITY SYMPHONY ORCHESTRA**

1 credit.

Performance plus additional study of performance practice and orchestral literature. Open to graduate music majors only.

**Requisites:** Audition

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUSIC 571 – CHAMBER ORCHESTRA**

1 credit.

Rehearsal, study of performance of classical symphonic works of 19th and 20th century orchestra and concerto literature.

**Requisites:** Audition Grad st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**MUSIC 572 – ADVANCED ENSEMBLE-CLASSICAL GUITAR**

1 credit.

Rehearsal, coaching and preparing guitar literature for performance of duos, trios, and quartets. Musicians other than guitarists are permitted to enroll and be incorporated into the ensembles.

**Requisites:** Cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUSIC 573 – CONTEMPORARY CHAMBER ENSEMBLE**

1 credit.

Assignments in performing ensemble literature. Open to all University students with graduate standing.

**Requisites:** Cons inst; Grad st

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**MUSIC 574 – WIND ENSEMBLE**

1 credit.

Limited instrumentation for students having attained exceptional level of performance ability.

**Requisites:** Audition; Grad st

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUSIC 576 – CONCERT BAND**

1 credit.

Rehearsal and performance from band literature; additional study of performance practice. Open to graduate students only.

**Requisites:** Audition; Grad st

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUSIC 577 – CHORALE**

1 credit.

Performance and study of choral chamber music.

**Requisites:** Audition; Grad st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC 578 – CONCERT CHOIR**

1 credit.

Performance plus additional study of performance practice and choir literature. Open to graduate majors only. Grad st

**Requisites:** Audition.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC 579 – MASTERS SINGERS**

1 credit.

A group of select singers who study varied repertoire conducted by graduate students.

**Requisites:** Audition; Grad st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC 591 – ORGAN LITERATURE AND DESIGN**

2 credits.

Survey of organ literature with parallel study of organ design and construction. Research project required.

**Requisites:** Senior standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**MUSIC/L I S 619 – MUSIC RESEARCH METHODS AND MATERIALS**

3 credits.

Historical and contemporary bibliography resources for musical scholarship; general reference tools of scholarly work and specific musicological works.

**Requisites:** Graduate standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUSIC 620 – PROSEMINAR IN MUSICOLOGY**

3 credits.

Introduction to musicological methods and problems, principally with reference to the history of Western music. Current issues.

**Requisites:** MUSIC/L I S 619**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2010**MUSIC 621 – RENAISSANCE POLYPHONY**

3 credits.

Analysis and stylistic composition.

**Requisites:** Sr st or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MUSIC 622 – BAROQUE COUNTERPOINT**

3 credits.

Analysis and stylistic composition.

**Requisites:** Senior standing**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUSIC 623 – FORM AND ANALYSIS**

2-3 credits.

Study of modern analytical techniques; practice in analysis of representative works.

**Requisites:** Senior standing**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**MUSIC 624 – FORM AND ANALYSIS II**

2-3 credits.

Continuation of 623.

**Requisites:** Senior standing**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**MUSIC 681 — SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2014**MUSIC 682 — SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2015**MUSIC 725 — MUSIC THEORY PEDAGOGY**

3 credits.

Approaches to the instruction of undergraduates in rudiments, aural skills, harmony, counterpoint, and analysis; problem-solving in the classroom; computer-assisted instruction.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2011**MUSIC 749 — SEMINAR IN VOCAL TECHNIQUES**

2 credits.

Study and analysis of various vocal techniques: pedagogical and historical viewpoints.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUSIC 751 — SEMINAR IN PIANO PEDAGOGY**

3 credits.

Interpretive and technical approaches to advanced keyboard performance.

**Requisites:** Grad st; cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC 752 — PIANO PEDAGOGY WORKSHOP**

1 credit.

This course is designed to assist the DMA student in piano performance and pedagogy in developing a pedagogical workshop for piano teachers. The project will culminate in a public workshop which may address any approved area of keyboard pedagogy.

**Requisites:** DMA candidate in piano performance and pedagogy; one semester of MUSIC 751; cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**MUSIC 768 — ADVANCED LANGUAGE DICTION FOR SINGING II**

2 credits.

Continuation of 767.

**Requisites:** Grad st; cons inst; knowledge of International Phonetic Alphabet (IPA)**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2008**MUSIC 791 — SEMINAR IN PIANO LITERATURE**

3 credits.

Applied piano literature including representative works from all periods.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**MUSIC 792 — SEMINAR IN VOCAL LITERATURE**

3 credits.

Comprehensive study of vocal literature including representative works from various periods.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**MUSIC 796 — SEMINAR IN DUO SONATA LITERATURE**

3 credits.

Comprehensive study of major works for single instrument and piano with primary focus on interpretive and technical issues for the collaborative musician.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017



**MUSIC 798 – SEMINAR-INSTRUMENTAL LITERATURE**

2 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MUSIC 799 – INDEPENDENT WORK**

1-3 credits.

Approval of project and assignment to staff member by Graduate Committee.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC 821 – HISTORICAL MUSIC THEORIES 1**

3 credits.

The development of musical concepts and issues in music-theoretical discourse from antiquity through the 17th century.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC 822 – HISTORICAL MUSIC THEORIES 2**

3 credits.

The development of musical concepts and issues in music-theoretical discourse from the 17th century through the present.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**MUSIC 823 – SCHENKERIAN ANALYSIS**

3 credits.

Studies in the theoretical concepts and analytical methods of Heinrich Schenker.

**Requisites:** MUSIC 621 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MUSIC 824 – POST-TONAL ANALYSIS**

3 credits.

Studies in the theoretical concepts and analytical methods, including those of Milton Babbitt, Allen Forte, David Lewin, Robert Morris, and others.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**MUSIC 900 – COLLOQUIUM**

0 credits.

Current research topics presented by staff, graduate students, and visiting scholars. Required of all graduate students in music history and ethnomusicology throughout residence. Required of all graduate students in music history, ethnomusicology, and music theory throughout residence.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUSIC 909 – MUSIC AND CULTURE WORKSHOP**

1-3 credits.

Advanced training in the cultural and interdisciplinary study of music. Emphases on critical analysis of recent scholarship; peer-review of manuscripts; presentation of ongoing research.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**MUSIC 911 – SEMINAR IN MUSICOLOGY**

3 credits.

Topics in musicology, dealing primarily with an important aspect or genre or music or segment of a stylistic period.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**MUSIC/FOLKLORE 915 – SEMINAR IN ETHNOMUSICOLOGY**

3 credits.

Topics in ethnomusicology within a cross-cultural framework; melodic typology, scale and tuning systems, mode, rhythm, ornamentation, improvisation techniques, oral and written traditions of composition, notation systems, and function of music society.

**Requisites:** MUSIC/FOLKLORE 401 or 402, 515**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**MUSIC 921 – CURRENT ISSUES IN MUSICAL THOUGHT 1**

3 credits.

Topics of current theoretical or compositional concern and in-depth discussions of recent publications.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016



**MUSIC 923 – SEMINAR IN NOTATION**

3 credits.

Notational systems, their history, interpretation and significance with special reference to development of Western notation.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MUSIC 925 – TOPICS IN MUSIC ANALYSIS 1**

3 credits.

Intensive discussions of particular repertoire or musical problems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**MUSIC 926 – TOPICS IN MUSIC ANALYSIS 2**

3 credits.

Intensive discussions of particular repertoire or musical problems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**MUSIC 927 – SEMINAR IN COMPOSITION**

3 credits.

Topics directly related to composition, including musical forms, contemporary performance practice, electronic music, intermedia.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MUSIC 990 – MASTERS THESIS**

1-4 credits.

Approval of subject and assignment to staff member by the Graduate Committee.

**Requisites:** Assignment by Grad committee**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC 999 – PHD DISS/DMA PROJECT**

1-3 credits.

Approval of project and assignment to staff member by the Graduate Committee.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUSIC-PERFORMANCE (MUS PERF)****MUS PERF 7 – FUNDAMENTALS-FLUTE**

1 credit.

**Requisites:** Consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUS PERF 12 – FUNDAMENTALS: DOUBLE REEDS**

1 credit.

Exploration of the fundamentals of the double reed instruments: oboe and bassoon.

**Requisites:** Cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2017**MUS PERF 14 – FUNDAMENTALS: SINGLE REEDS**

1 credit.

Exploration of the fundamentals of single reed instruments: saxophone and clarinet.

**Requisites:** Cons inst**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUS PERF 18 – FUNDAMENTALS-HIGH BRASS**

1 credit.

Exploration of the fundamentals of the high brass instruments: trumpet and French horn. Open to Fr

**Requisites:** Cons inst.**Repeatable for Credit:** No**Last Taught:** Spring 2017**MUS PERF 24 – FUNDAMENTALS-LOW BRASS**

1 credit.

Exploration of the fundamentals of the low brass instruments: trombone, euphonium and tuba. Open to Fr

**Requisites:** Cons inst.**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUS PERF 27 – FUNDAMENTALS-PERCUSSION**

1 credit.

**Requisites:** Consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUS PERF 32 – FUNDAMENTALS-HIGH STRINGS**

1 credit.

Exploration of the fundamentals of the high string instruments: violin and viola. Open to Fr

**Requisites:** Cons inst.**Repeatable for Credit:** No**Last Taught:** Fall 2017

**MUS PERF 36 – FUNDAMENTALS-LOW STRINGS**

1 credit.

Exploration of the fundamentals of the low stringed instruments: violoncello and double bass. Open to Fr

**Requisites:** Cons inst.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MUS PERF 44 – STUDY ABROAD: BEGINNING INSTRUCTION IN MUSIC PERFORMANCE**

1 credit.

Beginning class or private music performance instruction taken in a UW-Madison resident study abroad program.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Repeatable for Credit:** Yes, unlimited number of completions

**MUS PERF 47 – BASIC FLUTE**

1-2 credits.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**MUS PERF 49 – BASIC OBOE**

1-2 credits.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 51 – BASIC CLARINET**

1-2 credits.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 55 – BASIC BASSOON**

1-2 credits.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 57 – BASIC HORN**

1-2 credits.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**MUS PERF 59 – BASIC TRUMPET/CORNET**

1-2 credits.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**MUS PERF 61 – BASIC TROMBONE**

1-2 credits.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 63 – BASIC EUPHONIUM**

1-2 credits.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**MUS PERF 65 – BASIC TUBA**

1-2 credits.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**MUS PERF 67 – BASIC PERCUSSION**

1-2 credits.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2012

**MUS PERF 71 – BASIC VIOLIN**

1-2 credits.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 73 – BASIC VIOLA**

1-2 credits.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

**MUS PERF 75 – BASIC CELLO**

1-2 credits.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**MUS PERF 76 – BASIC GUITAR**

1-2 credits.

Private instruction in guitar performance at the beginning level.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 77 – BASIC STRING BASS**

1-2 credits.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 79 – BASIC HARP**

1-2 credits.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 101 – BEGINNING CLASS PIANO**

2 credits.

Open to Freshmen

**Requisites:** Audition consent of instructor.

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MUS PERF 102 – BEGINNING CLASS PIANO**

2 credits.

Open to Freshmen

**Requisites:** Audition consent of instructor.

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MUS PERF 103 – ELEMENTARY CLASS PIANO**

2 credits.

Open to Freshmen

**Requisites:** Audition and consent of instructor.

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MUS PERF 104 – INTERMEDIATE CLASS PIANO**

2 credits.

Open to Freshmen

**Requisites:** Audition and consent of instructor.

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MUS PERF 108 – JAZZ CLASS PIANO**

2 credits.

Development of basic jazz piano skills for solo, accompaniment, and ensemble playing; discussion of the role of the piano in various jazz ensemble formats; introduction to chord symbols, jazz voicings, melodic improvisation, and bass lines; continued development of sound technical skills for the piano. Students will apply these concepts to the performance of lead sheets from the standard jazz repertoire.

**Requisites:** MUS PERF 102

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MUS PERF 143 – INTRODUCTION TO PERFORMANCE: VOICE**

1 credit.

Voice for the non-music major beginning voice student; basic concepts of vocal technique, tone production, breathing, and diction for singing; basic musicianship; singing in class by the student individually and in small groups. Not open to Music majors. Not open to music majors

**Requisites:** Cons inst.

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MUS PERF 144 – VOCAL INSTRUCTION FOR NON-VOICE MAJORS**

1-2 credits.

Vocal instruction for the non-voice major. Basics of classical vocal technique; however, repertoire may include other musical styles, such as musical theater or jazz, as approved by instructor. A final, memorized performance exam is required.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 147 – FIRST YEAR COMPOSITION**

3 credits.

Open to Fr

**Requisites:** Cons inst.

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**MUS PERF 148 – FIRST YEAR COMPOSITION**

3 credits.

Open to Fr

**Requisites:** Cons inst.

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MUS PERF 200 – ELEMENTARY/INTERMEDIATE PIANO FOR NON-PIANO MAJORS**

2 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 201 – ELEMENTARY/INTERMEDIATE PIANO**

2-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 202 – ELEMENTARY/INTERMEDIATE HARPSICHORD**

2-4 credits.

Introduction to basic harpsichord technique, continuo realization and intermediate-level repertoire.

**Requisites:** Consent of instructor

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 203 – ELEMENTARY/INTERMEDIATE ORGAN**

2-4 credits.

Open to Fr

**Requisites:** Cons inst satisfactory polyphonic piano technique.

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**MUS PERF 205 – ELEMENTARY/INTERMEDIATE VOICE**

2-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 207 – ELEMENTARY/INTERMEDIATE FLUTE**

2-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 209 – ELEMENTARY/INTERMEDIATE OBOE**

2-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 211 – ELEMENTARY/INTERMEDIATE CLARINET**

2-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 213 – ELEMENTARY/INTERMEDIATE SAXOPHONE**

2-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 215 – ELEMENTARY/INTERMEDIATE BASSOON**

2-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 217 – ELEMENTARY/INTERMEDIATE HORN**

2-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 219 – ELEMENTARY/INTERMEDIATE TRUMPET**

2-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 221 – ELEMENTARY/INTERMEDIATE TROMBONE**

2-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 223 – ELEMENTARY/INTERMEDIATE EUPHONIUM**

2-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 225 – ELEMENTARY/INTERMEDIATE TUBA**

2-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 227 – ELEMENTARY/INTERMEDIATE PERCUSSION**

2-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 231 – ELEMENTARY/INTERMEDIATE VIOLIN**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 233 – ELEMENTARY/INTERMEDIATE VIOLA**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 235 – ELEMENTARY/INTERMEDIATE CELLO**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 237 – ELEMENTARY/INTERMEDIATE STRING BASS**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 239 – ELEMENTARY/INTERMEDIATE HARP**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 240 – ELEMENTARY/INTERMEDIATE GUITAR**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 242 – ACCOMPANYING**

2 credits.

**Requisites:** Cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MUS PERF 247 – SECOND YEAR COMPOSITION**

3 credits.

**Requisites:** Cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUS PERF 248 – SECOND YEAR COMPOSITION**

3 credits.

**Requisites:** Cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUS PERF 251 – KEYBOARD SKILLS**

2 credits.

Keyboard skills for the piano major.

**Requisites:** Admission to Mus Perf 201 cons inst**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUS PERF 301 – ADVANCED TECHNIQUES: PIANO**

1-2 credits.

**Requisites:** Jr st cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**MUS PERF 311 – ADVANCED TECHNIQUES: CLARINET**

1-2 credits.

**Requisites:** Jr st cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 315 – ADVANCED TECHNIQUES: BASSOON**

1-2 credits.

**Requisites:** Jr st cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012**MUS PERF 327 – ADVANCED TECHNIQUES: PERCUSSION**

1-2 credits.

**Requisites:** Jr st cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015

**MUS PERF 331 – ADVANCED TECHNIQUES: VIOLIN**

1-2 credits.

**Requisites:** Jr st cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**MUS PERF 333 – ADVANCED TECHNIQUES: VIOLA**

1-2 credits.

**Requisites:** Jr st cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 335 – ADVANCED TECHNIQUES: CELLO**

1-2 credits.

**Requisites:** Jr st cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012**MUS PERF 339 – ADVANCED TECHNIQUES: HARP**

1-2 credits.

**Requisites:** Jr st cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 342 – PIANO ACCOMPANYING LAB**

1 credit.

Laboratory in piano accompanying for piano emphasis majors.

**Requisites:** Cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 347 – THIRD YEAR COMPOSITION**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**MUS PERF 348 – THIRD YEAR COMPOSITION**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**MUS PERF 401 – ADVANCED PIANO**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 402 – ADVANCED HARPSICHORD**

2-4 credits.

Upper-level harpsichord study of advanced repertoire and basso continuo; for harpsichordists who have mastery of basic technique and repertoire.

**Requisites:** Cons inst, Mus Perf 202**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 403 – ADVANCED ORGAN**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 405 – ADVANCED VOICE**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 407 – ADVANCED FLUTE**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 409 – ADVANCED OBOE**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**MUS PERF 411 – ADVANCED CLARINET**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**MUS PERF 413 – ADVANCED SAXOPHONE**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 415 – ADVANCED BASSOON**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 417 – ADVANCED HORN**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 419 – ADVANCED TRUMPET**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 421 – ADVANCED TROMBONE**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 423 – ADVANCED EUPHONIUM**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 425 – ADVANCED TUBA**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 427 – ADVANCED PERCUSSION**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 431 – ADVANCED VIOLIN**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 433 – ADVANCED VIOLA**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 435 – ADVANCED CELLO**

2-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**MUS PERF 437 – ADVANCED STRING BASS**

2-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**MUS PERF 439 – ADVANCED HARP**

2-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**MUS PERF 440 – ADVANCED GUITAR**

2-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 447 – FOURTH YEAR COMPOSITION**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MUS PERF 448 – FOURTH YEAR COMPOSITION**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**MUS PERF 457 – JAZZ COMPOSITION AND ARRANGING**

3 credits.

**Requisites:** Cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**MUS PERF 458 – JAZZ COMPOSITION AND ARRANGING**

3 credits.

**Requisites:** Cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**MUS PERF 499 – SENIOR RECITAL**

2 credits.

**Requisites:** Approval of applied area

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**MUS PERF 501 – MASTERS LEVEL-PIANO**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 503 – MASTERS LEVEL-ORGAN**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2013

**MUS PERF 505 – MASTERS LEVEL-VOICE**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 507 – MASTERS LEVEL-FLUTE**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 509 – MASTERS LEVEL-OBOE**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2013

**MUS PERF 511 – MASTERS LEVEL-CLARINET**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**MUS PERF 513 – MASTERS LEVEL-SAXOPHONE**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**MUS PERF 515 – MASTERS LEVEL-BASSOON**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**MUS PERF 517 – MASTERS LEVEL-HORN**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**MUS PERF 519 – MASTERS LEVEL-TRUMPET**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 521 – MASTERS LEVEL-TROMBONE**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 523 – MASTERS LEVEL-EUPHONIUM**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**MUS PERF 525 – MASTERS LEVEL-TUBA**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**MUS PERF 527 – MASTERS LEVEL-PERCUSSION**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 531 – MASTERS LEVEL-VIOLIN**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 532 – ADVANCED CONDUCTING**

3-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 533 – MASTERS LEVEL-VIOLA**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**MUS PERF 535 – MASTERS LEVEL-CELLO**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 540 – MASTERS LEVEL-GUITAR**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**MUS PERF 542 – ADVANCED ACCOMPANYING**

2-3 credits.

**Requisites:** Grad st in Music Perf; extensive repertoire in accompanying literature including public performance; cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 547 – MASTERS LEVEL COMPOSITION**

3 credits.

Private composition at the master's degree level.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 548 – MASTERS LEVEL COMPOSITION**

3 credits.

Private composition at the master's degree level.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**MUS PERF 561 – ORGAN IMPROVISATION AND LITURGY**

2 credits.

Development of organ improvisation skills; survey of liturgical practices and styles.

**Requisites:** Sr/Grad st or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**MUS PERF 562 – ORGAN IMPROVISATION AND LITURGY**

2 credits.

Continuation of 561.

**Requisites:** Sr/Grad st or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**MUS PERF 701 – DOCTORAL LEVEL-PIANO**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 703 – DOCTORAL LEVEL-ORGAN**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 705 – DOCTORAL LEVEL-VOICE**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 707 – DOCTORAL LEVEL-FLUTE**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**MUS PERF 709 – DOCTORAL LEVEL-OBOE**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 711 – DOCTORAL LEVEL-CLARINET**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**MUS PERF 713 – DOCTORAL LEVEL-SAXOPHONE**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 715 – DOCTORAL LEVEL-BASSOON**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 717 – DOCTORAL LEVEL-HORN**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 719 – DOCTORAL LEVEL-TRUMPET**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 721 – DOCTORAL LEVEL-TROMBONE**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**MUS PERF 723 – DOCTORAL LEVEL EUPHONIUM**

4 credits.

Doctoral level private instruction in euphonium performance.

**Requisites:** Audition cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2011

**MUS PERF 725 – DOCTORAL LEVEL TUBA**

4 credits.

Private instruction in tuba performance including appropriate etudes, solo, chamber and orchestral literature.

**Requisites:** Acceptance into the Doctor of Musical Arts Degree program for brass instruments

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**MUS PERF 727 – DOCTORAL LEVEL PERCUSSION**

4 credits.

This course is designed to assist the student in musical and technical proficiency on designated percussion instruments. Studying at an advanced performance level, the student works independently and with faculty guidance to develop one's personal potential.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**MUS PERF 731 – DOCTORAL LEVEL-VIOLIN**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 732 – DOCTORAL LEVEL CONDUCTING**

2 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**MUS PERF 733 – DOCTORAL LEVEL-VIOLA**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 735 – DOCTORAL LEVEL-CELLO**

4 credits.

**Requisites:** Grad st in Music Perf cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**MUS PERF 740 – DOCTORAL LEVEL-GUITAR**

4 credits.

**Requisites:** Mus Perf 540**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2010**MUS PERF 742 – DOCTORAL LEVEL PRIVATE INSTRUCTION IN ACCOMPANYING**

2 credits.

Extensive, in-depth study of the collaborative piano repertoire, focusing primarily on works for single instruments and voice with piano at the doctoral level.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 747 – DOCTORAL LEVEL COMPOSITION**

3 credits.

Doctoral level composition.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 748 – DOCTORAL LEVEL COMPOSITION**

3 credits.

Doctoral level composition.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**MUS PERF 990 – MASTERS RECITAL**

1-4 credits.

**Requisites:** Approval of Grad committee**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**MUS PERF 999 – DMA RECITAL**

1 credit.

Preparation and public performance of a Doctoral Recital that comprises a portion of the degree requirements for all Doctor of Musical Arts degrees.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**NAVAL SCIENCE (NAV SCI)****NAV SCI 101 – INTRODUCTION TO NAVAL SCIENCE**

2 credits.

Introduction to the naval profession emphasizing the missions, organization, and components of the Navy and Marine Corps. Topics include terminology, military justice, job specialties, seapower, and naval leadership. Includes lab. Intended for first year Naval ROTC students.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**NAV SCI 102 – SEAPOWER-MARITIME AFFAIRS**

3 credits.

Historical survey of the U.S. Navy and American concepts of seapower from 1775 to the present. Includes the evolution of maritime strategy in support of U.S. National Strategy. Current issues in maritime affairs. Includes lab. Open to non-ROTC students on a space available basis, with consent of instructor.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**NAV SCI 175 – INTRODUCTORY NAVAL LABORATORY I**

1 credit.

Laboratory class covering officer education in naval orientation and other topics dealing with the professional development of future naval officers. Intended for freshman NROTC students.

**Requisites:** Enrolled in Naval ROTC program**Repeatable for Credit:** No**Last Taught:** Fall 2017**NAV SCI 176 – INTRODUCTORY NAVAL LABORATORY II**

1 credit.

Laboratory class covering officer education in naval sea power and other topics dealing with the professional development of future naval officers. Intended for freshman NROTC students.

**Requisites:** Enrolled in Naval ROTC program**Repeatable for Credit:** No**Last Taught:** Spring 2017**NAV SCI 201 – NAVAL LEADERSHIP AND MANAGEMENT**

3 credits.

A study of organizational behavior and management within the context of the naval organization. Topics include a survey of managerial functions and a study of behavioral aspects of organizations with emphasis on motivation and leadership. Includes lab. Open to non-ROTC students on a space available basis, with consent of instructor.

**Requisites:** None**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017



**NAV SCI 202 – NAVIGATION**

3 credits.

Introduction to concepts and techniques used to navigate U.S. Navy and civilian ships. Charts and publications, compasses, tides and currents, dead reckoning, piloting, celestial and electronic navigation; day's work in navigation and Nautical Rules of the Road. Includes lab. Open to non-ROTC students on a space available basis, with consent of instructor.

**Requisites:** None

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NAV SCI 275 – ELEMENTARY NAVAL LABORATORY I**

1 credit.

Laboratory class covering officer education in naval engineering and other topics dealing with the professional development of future naval officers. Intended for sophomore NROTC students.

**Requisites:** Enrolled in Naval ROTC program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NAV SCI 276 – ELEMENTARY NAVAL LABORATORY II**

1 credit.

Laboratory class covering officer education in naval weapons and other topics dealing with the professional development of future naval officers. Intended for sophomore NROTC students.

**Requisites:** Enrolled in Naval ROTC program

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NAV SCI 301 – NAVAL ENGINEERING**

3 credits.

The basic principles and components of ship propulsion systems including steam, diesel, gas turbine, and nuclear power plants. Other topics include ship construction, buoyancy and stability, damage control, electrical distribution, and air conditioning/ refrigeration. Includes lab. Open to non-ROTC students on a space available basis, with consent of instructor.

**Requisites:** None

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**NAV SCI 302 – NAVAL WEAPONS**

3 credits.

Introduction to the properties and behavior of electronic, electromagnetic, and mechanical systems used in naval weapons systems. Topics and concepts include wide range of academic disciplines, all of which are applied to the maritime uses of radar, sonar, communications, electro-optics, computers, missile, and electronic warfare systems. Open to non-ROTC students on a space available basis, with consent of instructor.

**Requisites:** None

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NAV SCI 350 – AMPHIBIOUS CAMPAIGNS**

3 credits.

History of amphibious warfare and the development of the concepts, principles, and techniques of amphibious operations through study of selected examples from modern history. Includes lab. Open to non-ROTC students on a space available basis, with consent of instructor.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**NAV SCI 351 – LAND CAMPAIGNS**

3 credits.

Evolution of weapons, strategy, tactics and material; the classic principles of war by study of selected battles and campaigns; survey of military and foreign policy, basic strategic concepts, and principles of warfare. Includes lab. Open to non-ROTC students on a space available basis, with consent of instructor.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NAV SCI 375 – INTERMEDIATE NAVAL LABORATORY I**

1 credit.

Laboratory class covering officer education in naval navigation and other topics dealing with the professional development of future naval officers. Intended for junior NROTC students.

**Requisites:** Enrolled in Naval ROTC program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NAV SCI 376 – INTERMEDIATE NAVAL LABORATORY II**

1 credit.

Laboratory class covering officer education in naval operations and other topics dealing with the professional development of future naval officers. Intended for junior NROTC students.

**Requisites:** Enrolled in Naval ROTC program**Repeatable for Credit:** No**Last Taught:** Spring 2017**NAV SCI 401 – NAVAL OPERATIONS**

3 credits.

In depth study of the professional and efficient operation of U.S. Navy ships. Fleet communications, tactical employment, relative motion plotting, seamanship, and a lecture series on Joint Warfare and the Employment of Naval Forces as an element of National Security Strategy. Open to non-ROTC students on a space available basis, with consent of instructor.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**NAV SCI 402 – NAVAL LEADERSHIP AND ETHICS**

3 credits.

Capstone course. Integrates an exploration of Western moral traditions and ethical philosophy with military leadership, professional ethics, and the Uniform Code of Military Justice. Includes lab. Intended for Senior NROTC students. Open to non-ROTC students on a space available basis, with consent of instructor.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**NAV SCI 475 – ADVANCED NAVAL LABORATORY I**

1 credit.

Laboratory class covering officer education in naval management and other topics dealing with the professional development of future naval officers. Intended for senior NROTC students.

**Requisites:** Enrolled in Naval ROTC program**Repeatable for Credit:** No**Last Taught:** Fall 2017**NAV SCI 476 – ADVANCED NAVAL LABORATORY II**

1 credit.

Laboratory class covering officer education in naval leadership and other topics dealing with the professional development of future naval officers. Intended for senior NROTC students.

**Requisites:** Enrolled in Naval ROTC program**Repeatable for Credit:** No**Last Taught:** Spring 2017**NAV SCI 575 – PROFESSIONAL NAVAL LABORATORY I**

1 credit.

Laboratory class covering officer education in naval orientation and other topics dealing with the professional development of future naval officers. Intended for senior NROTC students.

**Requisites:** Enrolled in Naval ROTC program**Repeatable for Credit:** No**Last Taught:** Fall 2017**NAV SCI 576 – PROFESSIONAL NAVAL LABORATORY II**

1 credit.

Laboratory class covering officer education in naval orientation and other topics dealing with the professional development of future naval officers. Intended for senior NROTC students.

**Requisites:** Enrolled in Naval ROTC program**Repeatable for Credit:** No**Last Taught:** Spring 2017

## NEUROLOGICAL SURGERY (NEURSURG)

**NEURSURG 699 – NEUROSURGERY: DIRECTED IN STUDY IN RESEARCH**

1-3 credits.

Directed Study in Neurological Surgery offers the undergraduate student majoring in an area of the biological sciences, and interested in preparing for advanced coursework in graduate or medical school, an opportunity to participate in neurological surgery research.

**Requisites:** Fr/So/Jr/Sr standing and consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**NEURSURG 919 – INDIVIDUALIZED FOURTH YEAR CLINICAL CLERKSHIP**

1-12 credits.

Individually arranged fourth year clinical clerkships. Student must have Fourth Year Committee approval to count for fourth year credit.

**Requisites:** 4th year Med student**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

## NEUROLOGY (NEUROL)

### NEUROL 699 – NEUROLOGY: DIRECTED STUDY IN NEUROSCIENCE RESEARCH

1-3 credits.

Neurology: Directed Study in Neuroscience Research offers the undergraduate student majoring in life sciences, including biology, chemistry, psychology, or related fields with interest in preparing for advanced coursework in graduate or medical school, an opportunity to participate in basic and translation research in neuroscience and neurological disorders.

**Requisites:** Freshman/Sophomore/Junior/Senior undergraduate standing

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### NEUROL/NTP 735 – NEUROBIOLOGY OF DISEASE

2 credits.

Seminar course relating major categories of human neurological and ophthalmological disease to fundamental topics in neurobiology.

**Requisites:** Graduate or professional standing and NTP/PHMCO-M/PHYSIOL/NTP/PHMCO-M 610

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

### NEUROL/KINES 779 – HUMAN MUSCLE FUNCTION IN HEALTH AND DISEASE

2 credits.

Multidisciplinary seminar on human muscle function in health and disease. The course is geared toward advanced undergraduate and graduate students in kinesiology, physical and occupational therapy, motor control and behavior, neurophysiology resident in neurology and other related allied health professionals.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

### NEUROL 812 – NEUROSCIENCE CORE CLERKSHIP

1-4 credits.

Four week clerkship with exposure to various neurological conditions in inpatient and outpatient settings. Students will enhance their skills in diagnosis, evaluation, treatment, and prognosis of patients with medical conditions. There will be a core goal to develop physical examination techniques. Knowledge about specific delineated neurological conditions will be emphasized.

**Requisites:** 3rd year Medical student

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### NEUROL 910 – INDEPENDENT READING AND RESEARCH FOR FOURTH YEAR MEDICAL STUDENTS

1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

### NEUROL 911 – NERVE TISSUE CULTURE LABORATORY-MSC

5 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2000

### NEUROL 919 – INDIVIDUALIZED FOURTH YEAR CLINICAL CLERKSHIP

1-12 credits.

Individually arranged fourth year clinical clerkships. (Students must have Fourth Year Committee approval to count for fourth year credit.)

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### NEUROL 920 – CLINICAL NEUROLOGY CLERKSHIP-MARSHFIELD

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

### NEUROL 990 – RESEARCH SPECIAL NEUROLOGICAL FIELDS

1-12 credits.

**Requisites:** 2nd yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

### NEUROL 999 – RESEARCH TRAINING IN NEUROLOGY

1-3 credits.

**Requisites:** 2nd yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 1985

## NEUROSCIENCE (NEURODPT)

### NEURODPT/NTP/PHYSIOL/ZOOLOGY 616 – LAB COURSE IN NEUROBIOLOGY AND BEHAVIOR

4 credits.

Students will do three independent experimental modules exploring neurophysiology and behavior, each taking 4-5 weeks. Students will work in groups of 2 or 3 and will learn techniques and then develop their own short investigations into each of three separate areas of neurobiology. There will be continual interaction between students and faculty.

**Requisites:** ZOOLOGY/NTP/PSYCH/ZOOLOGY 523 and NTP/PHYSIO / PSYCH/ZOOLOGY/NTP/PHYSIOL/PSYCH 524 or NTP/PHMCOL-M/PHYSIOL/NTP/PHMCOL-M 610 and ANATOMY/NTP/PHMCOL-M/PHYSIOL/PSYCH/ANATOMY/NTP/PHMCOL-M/PHYSIOL 611

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### NEURODPT/PSYCH/ZOOLOGY 674 – BEHAVIORAL NEUROENDOCRINOLOGY SEMINAR

2 credits.

Behavior results from a complex interplay among hormones, the brain, and environmental factors. Behaviors and their underlying neural substrates have evolved in response to specific environmental conditions, resulting in vast species diversity in behavioral and neuroendocrine solutions to environmental problems. This seminar is designed to explore the primary literature on the neuroendocrine underpinnings of behavior spanning from feeding to sex differences in complex social behaviors. A range of taxonomic groups will be discussed, including (but not limited to) mammals, birds, and fish. A background in neuroscience and/or endocrinology is strongly recommended.

**Requisites:** BIOLOGY/ZOOLOGY/BIOLOGY 101 or BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151 or BIOCORE 383

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### NEURODPT 699 – INDEPENDENT WORK

1-4 credits.

Independent work.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## NEUROSCIENCE TRAINING PROGRAM (NTP)

### NTP/PHYSIOL/PSYCH/ZOOLOGY 524 – NEUROBIOLOGY II: AN INTRODUCTION TO THE BRAIN AND BEHAVIOR

3 credits.

An introduction to studies of the human nervous system covering neuroanatomy of the brain, neuronal coding, sensory and motor systems, biological rhythms, arousal, attention, physiological regulation, reward, aversion, learning and memory.

**Requisites:** Zool 523, equiv crse in physiol, or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

### NTP/PHMCOL-M/PHYSIOL 610 – CELLULAR AND MOLECULAR NEUROSCIENCE

4 credits.

Study of original papers leading to an understanding of the molecular basis of electrical activity in neurons. Topics include voltage-sensitive currents, molecular biology of neuronal receptors, synaptic transmission and sensory transduction. Lectures supplemented with experimental demonstrations and discussion sessions.

**Requisites:** Zoo 523 or equiv

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### NTP/ANATOMY/PHMCOL-M/PHYSIOL/PSYCH 611 – SYSTEMS NEUROSCIENCE

4 credits.

Introduction to the anatomy and physiology of the mammalian nervous system. Lectures will cover the neuroanatomy of the major subdivisions of the human brain, the major sensory and motor systems, and higher order functions. Lab/discussion sections will emphasize readings from the primary literature and hands-on dissections.

**Requisites:** PHYSIOL/NTP/PHMCOL-M 610

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NTP/NEURODPT/PHYSIOL/ZOOLOGY 616 – LAB COURSE IN NEUROBIOLOGY AND BEHAVIOR**

4 credits.

Students will do three independent experimental modules exploring neurophysiology and behavior, each taking 4-5 weeks. Students will work in groups of 2 or 3 and will learn techniques and then develop their own short investigations into each of three separate areas of neurobiology. There will be continual interaction between students and faculty.

**Requisites:** ZOOLOGY/NTP/PSYCH/ZOOLOGY 523 and NTP/PHYSIO / PSYCH/ZOOLOGY/NTP/PHYSIOL/PSYCH 524 or NTP/PHMCOL-M/PHYSIOL/NTP/PHMCOL-M 610 and ANATOMY/NTP/PHMCOL-M/PHYSIOL/PSYCH/ANATOMY/NTP/PHMCOL-M/PHYSIOL 611

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NTP/ANTHRO/PSYCH/ZOOLOGY 619 – BIOLOGY OF MIND**

3 credits.

Origins and structures of mind, brain, and consciousness. Transitions from early mammalian through primate to hominid intelligence. Genetics and plasticity in brain development. Modern studies of human brain mechanisms and consciousness.

**Requisites:** Jr st; college level elem crse in biology or psych

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**NTP/ZOOLOGY 620 – NEUROETHOLOGY SEMINAR**

2 credits.

A group discussion of primary literature articles relevant to the neural basis of behavior with a purpose to understand the neural basis of behavior in animals, to learn to read papers critically and improve discussion leading skills. Background in neuroscience strongly recommended

**Requisites:** Introductory biology.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2012

**NTP/ANATOMY/PHYSIOL 625 – BRAIN CELL CULTURES AND IMAGING: A LAB COURSE**

4 credits.

Hands-on laboratory training in neuronal cell culture, live and fixed neuron labeling and microscopy techniques to visualize neurons in culture, as well as image analysis methods. Enrollment limited to 12 students, authorized by cons inst

**Requisites:** Intro crses in biochem, cell biology anatomy.

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**NTP/PHYSIOL 629 – MOLECULAR AND CELLULAR MECHANISMS OF MEMORY**

3 credits.

Course will focus on the cell signaling and the resulting structural changes that occur at neuronal synapses during memory formation. The aim is to understand how the synaptic changes underlying memory occur.

**Requisites:** Crse in cellular neurosci (Neurosci 523 or equiv); BIOCHEM 501 or equiv

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**NTP/ANATOMY/PHYSIOL 630 – NEURONAL MECHANISMS FOR SENSATION AND MEMORY IN CEREBRAL CORTEX**

3 credits.

Current literature will be considered in lectures and discussions that provides insight into how the cerebral cortex processes sensory information to generate and store cogent representations of the external world. The course includes laboratory exercises and demonstrations.

**Requisites:** Intro neurosci crse highly recommended: Neurosci/Anat/Phmcol/PHYSIOL/ANATOMY/NTP/PHMCOL-M/PSYCH 611, Med Sc-M 731, Comp Bio 505, Zool/Neurosci/PSYCH/ZOOLOGY 523, Psych/Neurophy/Neurosci/Zool 524; or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NTP/MED PHYS 651 – METHODS FOR NEUROIMAGING RESEARCH**

3 credits.

Provides a practical foundation for neuroimaging research studies with statistical image analysis. Specific imaging methods include functional BOLD MRI, structural MRI morphometry, and diffusion tensor imaging. Lectures and associated in-class computer exercises will cover the physics and methods of image acquisition, steps and tools for image analyses, the basis for statistical image analyses and interpretation of the results.

**Requisites:** Junior standing

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**NTP 655 – MODELING NEURODEVELOPMENTAL DISEASE**

3 credits.

This course will systematically explore current animal models of human diseases that affect the central nervous system. Topics will include birth defects that disrupt normal brain architecture (holoprosencephaly and neural tube closure defects), birth defects affecting the visual system, and postnatal disease, e.g. neurodegeneration and stroke. This course is designed for graduate and advanced undergraduate students.

**Requisites:** Graduate standing or BOTANY/GENETICS/ZOOLOGY 466, ZOOLOGY 470, NTP/PSYCH/ZOOLOGY/PSYCH 523, or ZOOLOGY 570

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NTP 660 – NEUROSCIENCE & PUBLIC POLICY SEMINAR**

1-2 credits.

A graduate level seminar open to advanced undergraduates with consent of instructor. Covers various topics in neuroscience and in the related sciences in lectures that demonstrate the interaction between science and public policy. Grad st in the Neuroscience Training Program or in the Neuroscience and Public Policy Program

**Requisites:** Undergraduates: a background in neuroscience, (ZOOLOGY/ PSYCH 523 and 524, or Biocore 323 or Neurosci 610 and 611).

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**NTP 670 – STEM CELLS AND THE CENTRAL NERVOUS SYSTEM**

2-3 credits.

Among the topics that will be included in the course are: embryonic stem cells, adult stem cells, and the transplantation of embryonic and adult stem cell to the developing and adult CNS for experimental and therapeutic purposes. Grad stdts in the sciences or adv undergrads with cons inst

**Requisites:** BIOCHEM 501 or equiv.

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**NTP 675 – SPECIAL TOPICS**

1-3 credits.

**Requisites:** Variable

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**NTP 681 – SENIOR HONORS THESIS**

3 credits.

Research and thesis in neuroscience.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NTP 682 – SENIOR HONORS THESIS**

3 credits.

Continuation of 681.

**Requisites:** Neurosci 681, cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NTP 691 – UNDERGRADUATE THESIS**

3-6 credits.

Research and thesis in neuroscience.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**NTP 692 – UNDERGRADUATE THESIS**

3-6 credits.

Continuation of 691.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NTP 699 – DIRECTED STUDY IN RESEARCH**

1-6 credits.

Directed research in neuroscience.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**NTP/PHYSIOL 700 – PROFESSIONAL DEVELOPMENT FOR BIOMEDICAL GRADUATE STUDENTS**

1 credit.

Provides graduate students with the skills and knowledge necessary to succeed in science. Topics which are covered include choosing a thesis advisor, grant writing, preparing a seminar presentation, etc.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**NTP/NEUROL 735 – NEUROBIOLOGY OF DISEASE**

2 credits.

Seminar course relating major categories of human neurological and ophthalmological disease to fundamental topics in neurobiology.

**Requisites:** Graduate or professional standing and NTP/PHMCO-M/PHYSIOL/NTP/PHMCO-M 610

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**NTP/ANATOMY/ZOOLOGY 765 – DEVELOPMENTAL NEUROSCIENCE**

3 credits.

Analysis of neural development with emphasis on experimental approaches. Combination of lectures and discussions of primary literature. Topics include neural induction, patterning, mechanisms of axon guidance, neural crest cell migration and differentiation, cortical development, and synapse formation and elimination.

**Requisites:** Grad st in biol sci; undergrads with cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**NTP 777 – BASIC SLEEP MECHANISMS AND SLEEP DISORDERS: FROM NEUROBIOLOGY TO SLEEP MEDICINE**

3 credits.

Sleep occupies a third of our life, is found in all animal species carefully studied so far, and loss of sleep has both acute and long-term negative consequences on the brain and the body. Still, why we sleep remains unclear, and hypotheses on the role of sleep for synaptic homeostasis, learning and memory are being tested. Lectures will focus on the neurobiology of sleep, with detailed review of the brain structures involved in controlling wake and sleep, as well as the circadian and homeostatic regulation of sleep. Other topics will include changes in sleep need with age, animal models to study sleep, sleep disorders, and genetics of sleep.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**NTP 900 – NEUROSCIENCE SEMINAR: CURRENT TOPICS IN NEUROBIOLOGY**

1 credit.

Critical review of selected topics in neurobiology.

**Requisites:** Cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**NTP 990 – RESEARCH AND THESIS**

1-12 credits.

**Requisites:** Grad st in Neurosci

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**NTP 999 – ADVANCED INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 1995

**NUCLEAR ENGINEERING (N E)****N E 1 – COOPERATIVE EDUCATION PROGRAM**

1 credit.

Work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career.

**Requisites:** So st

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**N E 231 – SURVEY OF NUCLEAR ENGINEERING**

1 credit.

Consideration of work done by nuclear engineers; relevance of nuclear energy to society; environmental and other problems. Open to all students. Offered on a pass-fail basis only.

**Requisites:** Open to Freshmen

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**N E 234 – PRINCIPLES AND PRACTICE OF NUCLEAR REACTOR OPERATIONS**

4 credits.

This course presents the theoretical and practical information required to understand operation of nuclear reactors. The course content includes all subjects which must be known by a person seeking an operating license for the university reactor. Instructors integrate information on similar operations and systems in a nuclear power plant. Open to Freshmen

**Requisites:** Consent of instructor.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**N E 305 – FUNDAMENTALS OF NUCLEAR ENGINEERING**

3 credits.

Properties of nuclei, nuclear structure, radioactivity, nuclear reactions, fission, resonance reactions, moderation of neutrons.

**Requisites:** PHYSICS 205, 241, 244, 249 or declared in a Civil and Environmental Engineering, Nuclear Engineering and Engineering Physics, Electrical Engineering, Mechanical Engineering, or Physics graduate program

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**N E/ENVIR ST 373 – NUCLEAR ENERGY AND THE ENVIRONMENT**

3 credits.

Fission and fusion processes, nuclear reactors, power plants, radioactivity, biological effects, radiation and thermal releases, governmental regulations' impact on society.

**Requisites:** HS physics or chem; knowledge of basic biology or consent of instructor; not open to NEEP stdts

**Course Designation:** Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**N E 405 – NUCLEAR REACTOR THEORY**

3 credits.

The neutronics behavior of fission reactors, primarily from a theoretical, one-speed perspective. Criticality, fission product poisoning, reactivity control, reactor stability and introductory concepts in fuel management, followed by slowing down and one-speed diffusion theory.

**Requisites:** N E 305, MATH 319 and MATH 320 or declared in a Civil and Environmental Engineering, Nuclear Engineering and Engineering Physics, Electrical Engineering, Mechanical Engineering or Physics graduate program

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**N E 406 – NUCLEAR REACTOR ANALYSIS**

3 credits.

The neutronics behavior of fission reactors, both from a theoretical and computational multi-group perspective. Multi-group diffusion theory, finite-difference and nodal methods, core heterogeneous effects, pin power reconstruction, thermal neutron spectra, fine group whole spectrum calculations and coarse group constant generation.

**Requisites:** NEEP 405

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**N E 408 – IONIZING RADIATION**

3 credits.

Sources, interactions, and detection of ionizing radiation. Biological effects, shielding, standards of radiation protection.

**Requisites:** N E 305 or declared in a Civil and Environmental Engineering, Nuclear Engineering and Engineering Physics, Electrical Engineering, Mechanical Engineering or Physics graduate program

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**N E 411 – NUCLEAR REACTOR ENGINEERING**

3 credits.

Reactor heat generation and removal; steady- and unsteady-state conduction in reactor elements; single phase, two-phase, and liquid metal cooling, core thermal design.

**Requisites:** N E 305, M E 361, B M E/CBE/B M E 320 or M E 364 or declared in a Civil and Environmental Engineering, Nuclear Engineering and Engineering Physics, Electrical Engineering, Mechanical Engineering or Physics graduate program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**N E 412 – NUCLEAR REACTOR DESIGN**

3-5 credits.

Reactor design projects, reactor hazards, economics.

**Requisites:** NEEP 405, 411, Comp Sci 302 or NEEP 271

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**N E/M S & E 423 – NUCLEAR ENGINEERING MATERIALS**

3 credits.

Fundamentals of fuel and cladding behavior in terms of thermal properties, chemical behavior and radiation damage.

**Requisites:** MSE 350 or 351

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**N E 424 – NUCLEAR MATERIALS LABORATORY**

1 credit.

Practical application of materials issues for nuclear systems including welding, non-destructive examination, optical microscopy, electron microscopy, to understand radiation damage and corrosion.

**Requisites:** M S & E 350, N E/M S & E 423 and/or N E 541 recommended

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**N E 427 – NUCLEAR INSTRUMENTATION LABORATORY**

2 credits.

Experiments on nuclear instrumentation, counting, data analysis. One three-hour lab, one lecture per week.

**Requisites:** N E 305 or declared in a Civil and Environmental Engineering, Nuclear Engineering and Engineering Physics, Electrical Engineering, Mechanical Engineering or Physics graduate program

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**N E 428 – NUCLEAR REACTOR LABORATORY**

2 credits.

Experiments on reactor operation, flux measurement, measurements of reactor parameters, using pool type reactor. One three-hour lab per week.

**Requisites:** N E 405 and N E 427 or declared in a Civil and Environmental Engineering, Nuclear Engineering and Engineering Physics, Electrical Engineering, Mechanical Engineering or Physics graduate program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**N E/M S & E 433 – PRINCIPLES OF CORROSION**

3 credits.

Thermodynamics and kinetics of metallic corrosion. The common forms of corrosion and corrosion susceptibility tests. Electrochemical measurement of corrosion rates. Corrosion prevention, economic considerations. High temperature oxidation and sulphidation. Corrosion case histories.

**Requisites:** MSE 330 or equiv

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**N E/CIV ENGR/I SY E 460 – UNCERTAINTY ANALYSIS FOR ENGINEERS**

3 credits.

This course introduces undergraduates to approaches for quantifying uncertainty in engineering analyses. Both analytical and computational methods are demonstrated.

**Requisites:** Statistics 311, MATH/STAT 431, or consent of instructor

**Repeatable for Credit:** No

**N E 489 – HONORS IN RESEARCH**

1-3 credits.

Undergraduate research and senior honors thesis in nuclear engineering.

**Requisites:** Honors candidacy in nuclear engineering

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

**N E/MED PHYS 506 – MONTE CARLO RADIATION TRANSPORT**

3 credits.

Use of Monte Carlo technique for applications in nuclear engineering and medical physics. Major theory of Monte Carlo neutral particle transport is discussed. Standard Monte Carlo transport software is used for exercises and projects. Major emphasis is on analysis of real-world problems.

**Requisites:** NEEP 305 or equiv and one of NEEP 405, 408, Med Phys 501 or 569, or consent of instructor

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**N E/M E 520 – TWO-PHASE FLOW AND HEAT TRANSFER**

3 credits.

Two-phase flow and heat transfer in engineering systems. Pool boiling and flow boiling. Phenomenological modeling.

**Requisites:** ME 361 or Ch E 310 or equiv, Ch E 320 or ME 364 or equiv

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**N E/E C E/PHYSICS 525 – INTRODUCTION TO PLASMAS**

3 credits.

Basic description of plasmas: collective phenomena and sheaths, collisional processes, single particle motions, fluid models, equilibria, waves, electromagnetic properties, instabilities, and introduction to kinetic theory and nonlinear processes. Examples from fusion, astrophysical and materials processing plasmas.

**Requisites:** One crse in electromagnetic fields beyond elem physics

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**N E 526 – LABORATORY COURSE IN PLASMAS**

3 credits.

Provides a background in the techniques for creating, exciting, and measuring the properties of lab plasmas and using the associated apparatus.

**Requisites:** NEEP, Physics or ECE 525 or consent of instructor

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**N E/E C E/PHYSICS 527 – PLASMA CONFINEMENT AND HEATING**

3 credits.

Principles of magnetic confinement and heating of plasmas for controlled thermonuclear fusion: magnetic field structures, single particle orbits, equilibrium, stability, collisions, transport, heating, modeling and diagnostics. Discussion of current leading confinement concepts: tokamaks, tandem mirrors, stellarators, reversed field pinches, etc.

**Requisites:** NEEP/Phys/ECE 525 or equiv**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**N E/E C E 528 – PLASMA PROCESSING AND TECHNOLOGY**

3 credits.

Introduction to basic understanding and techniques. Plasma processing of materials for semiconductors, polymers, plasma spray coatings, ion implantation, etching, arcs, extractive metallurgy and welding. Plasma and materials diagnostics.

**Requisites:** PHYSICS 322 or ECE 320 or equiv or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**N E 536 – FEASIBILITY ST OF POWER FROM CONTROLLED THERMONUCLEAR FUSION**

3 credits.

Introduction to the use and design of possible fusion reactors. Problems of the plasma confinement and energy density, neutronics of blanket design, and radiation damage.

**Requisites:** NEEP 405, 411**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**N E 541 – RADIATION DAMAGE IN METALS**

3 credits.

A survey of the nature of point defects, how these defects are produced, how the defects migrate and cluster, and what effects point defects and defect clusters have on the physical and mechanical properties of metals.

**Requisites:** MSE 350 or 351**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**N E 550 – ADVANCED NUCLEAR POWER ENGINEERING**

3 credits.

Analysis of nuclear systems for the production of useful power. Emphasis: thermodynamic cycles, reactor types, coupling of reactor and power plant, design synthesis, and plant economics.

**Requisites:** NEEP 405 and 411**Repeatable for Credit:** No**Last Taught:** Fall 2016**N E 555 – NUCLEAR REACTOR DYNAMICS**

3 credits.

Basic equations and physical parameters of point reactor kinetics without feedback effects; the nuclear reactor as a total system; reactor excursions, Fuchs-Nordheim and Bethe-Tait models; space-time reactor dynamics; synthesis methods.

**Requisites:** NEEP 405**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**N E/M E 565 – POWER PLANT TECHNOLOGY**

3 credits.

Design and performance of power plants for the generation of electric power; fossil and nuclear fuels, cycle analysis, component design and performance, plant operation, control, economics and environmental impact. Advanced concepts.

**Requisites:** ME 361 or consent of instructor**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**N E/MED PHYS 569 – HEALTH PHYSICS AND BIOLOGICAL EFFECTS**

3-4 credits.

Physical and biological aspects of the use of ionizing radiation in industrial and academic institutions; physical principles underlying shielding instrumentation, waste disposal; biological effects of low levels of ionizing radiation; lecture and lab.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**N E 571 – ECONOMIC AND ENVIRONMENTAL ASPECTS OF NUCLEAR ENERGY**

3 credits.

Economics of the nuclear fuel cycle. Economic and environmental impact the nuclear fuel cycle. Impact on design, plant siting and regulation.

**Requisites:** NEEP 405 NEEP 411**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**N E/ I SY E 574 – METHODS FOR PROBABILISTIC RISK ANALYSIS OF NUCLEAR POWER PLANTS**

3 credits.

Methods for risk and reliability analysis of engineered systems, particularly as applied in the nuclear power industry. Fault trees and event trees, Bayesian data analysis, probabilistic risk management. Some familiarity with nuclear plant safety systems is helpful, but not required.

**Requisites:** STAT 224**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**N E 602 – SPECIAL TOPICS IN REACTOR ENGINEERING**

3 credits.

**Requisites:** None**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**N E 699 – ADVANCED INDEPENDENT STUDY**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**N E 705 – ADVANCED REACTOR THEORY**

3 credits.

The neutron transport equation and its application to the analysis of nuclear reactors. Numerical solution methods, including the multi-group model, one-group equations, energy-averaged constants, discrete ordinates, and Monte Carlo methods. Perturbation theory and variational techniques for practical problems.

**Requisites:** NEEP 405**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**N E/C&E SOC/I SY E/SOC 708 – SOCIETAL RISK MANAGEMENT OF TECHNOLOGICAL HAZARDS**

3 credits.

Issues involved in decision-making regarding technological risks and risk management in areas such as nuclear power, hazardous waste disposal, and pollution control. Risk perception and cognitive biases; risk analysis and decision analysis; political issues in risk management; regulatory mechanisms; and risk communication. Selected case studies.

**Requisites:** STAT 311 or MATH/STAT 431 or SOC/C&E SOC 360, IE 516, Grad st; or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**N E/E C E/PHYSICS 724 – WAVES AND INSTABILITIES IN PLASMAS**

3 credits.

Waves in a cold plasma, wave-plasma interactions, waves in a hot plasma, Landau damping, cyclotron damping, magneto-hydrodynamic equilibria and instabilities, microinstabilities, introduction to nonlinear processes, and experimental applications.

**Requisites:** NEEP/ECE/PHYSICS/E C E/N E 525 PHYSICS 721 or ECE 740 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**N E/E C E/PHYSICS 725 – PLASMA KINETIC THEORY AND RADIATION PROCESSES**

3 credits.

Coulomb Collisions, Boltzmann equation, Fokker-Planck methods, dynamical friction, neoclassical diffusion, collision operators radiation processes and experimental applications.

**Requisites:** Physics, ECE, NEEP 525 PHYSICS 721 or ECE 740 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**N E/E C E/PHYSICS 726 – PLASMA MAGNETOHYDRODYNAMICS**

3 credits.

MHD equations and validity in hot plasmas; magnetic structure and magnetic flux coordinates; equilibrium in various configurations; stability formulation, energy principle, classification of instabilities; ideal and resistive instability in various configurations, evolution of nonlinear tearing modes; force-free equilibria, helicity, MHD dynamo; experimental applications.

**Requisites:** NEEP/ECE/PHYSICS/E C E/N E 525 PHYSICS 721 or ECE 740 or cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**N E 741 – INTERACTION OF RADIATION WITH MATTER**

3 credits.

Review of topics in electrodynamics and special relativity; ionization and energy loss during scattering of charged particles; radiation from charged particles including Bremstrahlung, Cerenkov, and Synchrotron radiation; Thomson scattering of electromagnetic waves by charged particles.

**Requisites:** Engr Mech 202 or Phys 311; Phys 322**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015



**N E/E C E/PHYSICS 749 – COHERENT GENERATION AND PARTICLE BEAMS**

3 credits.

Fundamental theory and recent advances in coherent radiation charged particle beam sources (microwave to X-ray wavelengths) including free electron lasers, wiggler/wave-particle dynamics, Cerenkov masers, gyrotrons, coherent gain and efficiency, spontaneous emission, beam sources and quality, related accelerator concepts experimental results and applications.

**Requisites:** ECE 740 or PHYSICS 721, or equiv, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**N E 790 – MASTER'S RESEARCH AND THESIS**

1-9 credits.

**Requisites:** Grad st; Master's candidates only**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**N E 890 – PRE-DISSERTATOR'S RESEARCH**

1-9 credits.

Research by the Ph.D. students prior to becoming dissertators.

**Requisites:** Grad st; pre-dissertator**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**N E 903 – SPECIAL TOPICS-PLASMA PHYSICS**

3 credits.

**Requisites:** NEEP or ECE or PHYSICS/E C E/N E 724 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**N E/E C E/PHYSICS 922 – SEMINAR IN PLASMA PHYSICS**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**N E 990 – RESEARCH AND THESIS**

1-6 credits.

**Requisites:** Dissertator status**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**N E 999 – ADVANCED INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2005**NURSING (NURSING)****NURSING 100 – INTRODUCTION TO THE NURSING PROFESSION**

1 credit.

Introduction to the breadth of careers and educational pathways in the nursing profession. Students explore personal interests, capacities, and career goals in relation to nursing career options.

**Requisites:** PRN classification or consent of instructor**Repeatable for Credit:** No**Last Taught:** Spring 2017**NURSING/S&A PHM/SOC WORK 105 – HEALTH CARE SYSTEMS: INTERDISCIPLINARY APPROACH**

2 credits.

Introduction to health care systems. Factors affecting health and the value placed on health, the delivery of health care in different settings, the roles of various health workers, and the sociological and economic aspects of health care.

**Requisites:** None**Course Designation:** Breadth - Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**NURSING 212 – HUMAN RESPONSES TO HEALTH AND ILLNESS I**

4 credits.

Builds on students' previous work in the biological sciences, social sciences and the humanities. Introduces the physiological, psychosocial and cultural basis of health and the role of the nurse in promoting optimum function and well-being.

**Requisites:** Admitted to undergraduate Nursing program**Repeatable for Credit:** No**Last Taught:** Fall 2016**NURSING 219 – CLINICAL NURSING I**

3-4 credits.

Beginning practice of nursing in laboratory and selected health care settings.

**Requisites:** Nurs 212 or con reg; Nurs 301 or con reg; Chld Fam 362 or 363 or equiv, or con reg; or cons inst**Course Designation:** Workplace - Workplace Experience Course**Repeatable for Credit:** No**Last Taught:** Fall 2016



**NURSING 299 – INDEPENDENT READING**

1-3 credits.

**Requisites:** Sophomore, Junior, or Senior standing consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**NURSING 301 – HEALTH HISTORY AND PATIENT ASSESSMENT**

3 credits.

Basic techniques of writing a health history and conducting a routine assessment of a patient's health status.

**Requisites:** NUR, NRN or PA classif; Anat 328 or equiv or con reg; PHYSIOL 335 or equiv or con reg; or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**NURSING 302 – INTRODUCTION TO SYSTEMATIC INVESTIGATION**

3 credits.

Characteristics of qualitative and quantitative data and research process; analysis and evaluation of patient data and published nursing studies.

**Requisites:** Declared in Nursing program or Registered Nurse program

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NURSING 310 – MENTAL HEALTH AND MENTAL ILLNESS: IMPLICATIONS FOR NURSING**

3 credits.

Theoretical foundations for nursing care; role of the nurse in community mental health settings, hospital settings, and psychiatric therapies.

**Requisites:** Chld Fam 362 or 363 or equiv, or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 312 – HUMAN RESPONSES TO HEALTH AND ILLNESS II**

4 credits.

Focus is on human responses to adult illnesses. Those adult illnesses that are highly prevalent or can induce potentially life-threatening human responses will be emphasized.

**Requisites:** Nurs 212, phmcol or con reg, pathophysiol or con reg, Nurs 219 or con reg

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NURSING 313 – FOUNDATIONS OF NURSING PRACTICE**

2 credits.

Focuses on foundational concepts necessary to provide person-centered, evidence-based nursing care, including the nursing process and health and illness concepts. Active learning is emphasized as students gain confidence with applying the nursing process and begin to develop clinical judgment and assessment skills. This course complements a companion experiential course (NURSING 316), in which students provide holistic, safe therapeutic care in community and acute-care settings.

**Requisites:** Declared in the Nursing program and NURSING 316 or concurrent enrollment

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 314 – HEALTH PROMOTION AND DISEASE PREVENTION ACROSS THE LIFESPAN**

4 credits.

Focuses on the role of the baccalaureate generalist nurse in health promotion and disease prevention across the lifespan. Students will learn about factors that impact health of individuals and families. Active learning is emphasized as students apply the nursing process to concepts such as health determinants, health education, self-management, and innate psychological needs related to well-being.

**Requisites:** Declared in the Nursing program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 315 – PROFESSIONALISM IN NURSING PRACTICE**

2 credits.

Focuses on professional nursing attributes and interaction essential to professional competence. Students study concepts that allow them to provide care unique to an individual, family, community, and systems, and to the context in which they live. Concepts related to the health care system are included to provide a foundation for beginning nursing practice. Knowledge from sciences, social studies, and humanities education is integrated into nursing practice and builds foundational knowledge of the science of nursing.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 316 – FOUNDATIONS OF NURSING PRACTICE: EXPERIENTIAL LEARNING**

4 credits.

Introduces psychomotor and assessment skills necessary to provide person-centered, evidence-based nursing care. Students will experience opportunities to promote wellness and respond to health problems by participating in direct client care in community and acute-care settings. Students will develop confidence with the application of skills and clinical judgment in a simulation lab and through concept-based learning experiences in care settings.

**Requisites:** Declared in the Nursing program and NURSING 313 or concurrent enrollment

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 319 – NURSING CARE IN THE INPATIENT SETTING**

4 credits.

Clinical practice in the inpatient setting based on application of clinical decision making in the nursing care of persons with selected physiological and psychosocial problems resulting from pathophysiological processes and the illness experience.

**Requisites:** Nurs 212, Nurs 219 or cons inst, Nurs 312 or con reg

**Course Designation:** Gen Ed - Communication Part B

Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NURSING 322 – COMMUNITY HEALTH NURSING**

3 credits.

Introduction to community health nursing roles focusing on aggregates as targets of public health services. Content includes epidemiology, structure of public health services, levels of prevention, and aggregate assessment.

**Requisites:** Chld Fam 362 or 363 or equiv, Nurs 105, Nurs 212, or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 323 – HEALTH AND ILLNESS CONCEPTS WITH INDIVIDUALS AND FAMILIES**

4 credits.

Focuses on health and illness concepts emphasizing care to individuals and families across the lifespan. Students gain a fundamental understanding of allostasis, oxygenation and hemostasis, and protection and movement. Students gain knowledge of these concepts through exemplars that illustrate common health processes and/or alterations. The nursing process will frame learning activities that foster understanding of the nursing role in providing care to individuals and families experiencing related health and illness concerns.

**Requisites:** NURSING 313

**Repeatable for Credit:** No

**NURSING 324 – MEETING THE PSYCHOSOCIAL HEALTH NEEDS OF INDIVIDUALS, FAMILIES, AND COMMUNITIES**

3 credits.

Builds on students' previous knowledge to prepare them to meet the psychosocial health needs of individuals, families, and communities across the lifespan. Students will explore psychosocial concepts of stress, coping, mood, cognition, and behavior across the health-illness continuum and across practice settings. The human experience of psychosocial health needs is explored in the context of personal attributes, such as genetics, and interpersonal dynamics, such as family and community. Students will acquire the knowledge, attitudes, and skills needed to collaborate in the treatment and care of client psychosocial health needs.

**Requisites:** NURSING 314

**Repeatable for Credit:** No

**NURSING 325 – PROFESSIONALISM IN HEALTH CARE SETTINGS**

2 credits.

Focuses on advancing knowledge of professional attributes and core competencies in the role of a nurse and how they are used in complex care settings. Students gain an understanding of concepts of leadership, ethics, and advocacy. Students broaden their understanding of nursing's role in the health care delivery system regarding quality improvement, care coordination, and palliation.

**Requisites:** NURSING 315

**Repeatable for Credit:** No

**NURSING 326 – HEALTH AND ILLNESS CONCEPTS WITH INDIVIDUALS AND FAMILIES: EXPERIENTIAL LEARNING I**

2 credits.

Builds on psychomotor and assessment skills necessary to provide direct care to individuals and families across the lifespan. Students continue to develop clinical judgment, knowledge, communication skills, and professional behavior while providing nursing care that is safe, evidence-based, and patient centered. Experiential learning takes place in simulated and clinical settings, building on previous and concurrent coursework.

**Requisites:** NURSING 316

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**NURSING 332 – ESSENTIALS OF FAMILY-CENTERED PERINATAL AND PEDIATRIC NURSING**

3 credits.

Introduces principles of family-centered nursing care of women during the perinatal period and of children from infancy through adolescence. Examines nursing strategies for health promotion, illness prevention, and coping with stressors frequently encountered during childbearing, illness, injury, hospitalization.

**Requisites:** Chld Fam 362 or 363 or equiv; and NURSING 212;

NURSING 219 may be taken concurrently; or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NURSING 360 – HUMAN SEXUALITY**

2 credits.

Concepts of human sexuality and their significance to nursing interventions with clients in various states of health.

**Requisites:** Jr st; Anat 428 or equiv; PHYSIOL 335 or equiv; ChldFam 362 363 or equiv; or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**NURSING 401 – LEGAL AND SOCIAL FORCES IN NURSING**

3 credits.

Legal, social, and ethical forces affecting the education of nurses and the practice of nursing.

**Requisites:** Nurs 219

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NURSING 415 – ORGANIZATIONAL INFLUENCES ON INTERDISCIPLINARY PRACTICE**

3 credits.

Analysis of major organizational factors affecting the practice of clinicians in health care delivery organizations.

**Requisites:** Nurs/SA Phm/Soc Wk/Ther Sci 105; Nurs 319 for Nursing majors; or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NURSING 419 – CLINICAL III: COMMUNITY HEALTH NURSING PRACTICUM**

4 credits.

This practicum, located in community health nursing agencies, will provide students opportunities for practice directed toward preservation and promotion of health and prevention of disease, illness and injury in populations represented by the aged, parents, children and youth. Nurs 322 /or 332, 433 may be taken concurrently

**Requisites:** Nurs 319, 322, 332, 433 or cons inst.

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 422 – ADVANCED CONCEPTS IN NURSING PRACTICE**

3 credits.

Content is presented to develop skill in the application of concepts and to develop clinical knowledge for nursing practice. Pattern recognition is used to analyze practice concepts within an illness-wellness trajectory, across settings and with diverse populations.

**Requisites:** Nurs 419 or con reg or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 433 – ESSENTIALS OF GERONTOLOGICAL NURSING**

3 credits.

Health and functional ability of the elderly population as they relate to nursing practice are the focus of this course. Common health problems found in this population are studied with an emphasis on prevention and nursing management.

**Requisites:** ChldFam 362 or 363 or equiv; and NURSING 212;

NURSING 219 may be taken concurrently; or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 449 – NURSING CARE OF PERSONS AND FAMILIES WITH COMPLEX HEALTH CARE NEEDS**

4 credits.

The overall goal is the provision of comprehensive nursing care to a specific patient population. Scientific, theoretical, and experiential knowledge will form the basis for student nursing practice.

**Requisites:** Nurs 419

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 470 – SCHOOL NURSING IN THE CONTEXT OF COMMUNITY HEALTH PRACTICE**

2-3 credits.

Theoretical foundation for community health nursing (CHN) applied to school nurse settings. Students acquire the theoretical and practical foundations for establishing and maintaining school health nursing services. Content is drawn from nursing and public health sciences and includes topics of health promotion, disease prevention, epidemiology, evidence based practice, ethics, and the role of the CHN. The nursing process is applied with a focus of providing care at the individual through the population level. The ecological model is used to analyze the influence of socioeconomic, environmental, political, and cultural health determinants. ADN nurses who have not had a community health nursing course enroll for 3 credits.

**Requisites:** Nursing major -junior standing or NCP classification; For students in the nursing major prior or concurrent community health course; or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 472 – PRACTICUM IN SCHOOL NURSING**

6 credits.

Direct work with the school nurse and school staff in planning and providing health services to school age youth and school personnel.

**Requisites:** Nurs 470, Jr st or NRN classification or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**NURSING 490 – MENTAL HEALTH NURSING ACROSS THE CARE CONTINUUM**

3 credits.

This course is designed to expand the knowledge and skills necessary for providing professional nursing care to individuals, groups, and families affected by mental illness in any setting. Particular attention is focused on complex health conditions and development of clinical reasoning to support competent nursing practice.

**Requisites:** Only students who have declared the BSN@Home program

**Repeatable for Credit:** Yes, unlimited number of completions

**NURSING 510 – CULTURALLY CONGRUENT PRACTICE**

3 credits.

Seminar assists students in building self-awareness, increasing knowledge, and advancing clinical skills needed to provide culturally congruent, person-centered care to patients with diverse backgrounds.

**Requisites:** None

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 511 – COMMUNITY SUPPORTS FOR PEOPLE WITH DEMENTIA**  
2 credits.

Provides an introduction to Alzheimer's disease and other dementias, with a focus on community supports for people living with dementia. Students will work across disciplines to learn how different areas of society can become dementia friendly and how to integrate relevant approaches in their future careers. Students will participate in a service-learning opportunity where they will work with local dementia-friendly community groups to strengthen supports for people with dementia and their caregivers.

**Requisites:** None

**Repeatable for Credit:** No

**NURSING/L I S/OCC THER 517 – DIGITAL HEALTH: INFORMATION AND TECHNOLOGIES SUPPORTING CONSUMERS AND PATIENTS**

3 credits.

This course is appropriate for undergraduate or graduate students considering careers in the health or allied health professions, service professions, and the social services, particularly those concerned with the medically underserved and members of racial/ethnic/socioeconomic minority groups. This course covers topics within the US context including: the identification of appropriate and accurate materials for consumer health and family education; the ethical and organizational policy issues that arise when providing consumer and family health information in different settings; the role of the public media in disseminating health information; the health-related information needs and preferences of racial/ethnic minority populations; and health information technologies, from search engines to websites to apps, that put people in charge of managing their own health information.

**Requisites:** Junior standing

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NURSING/KINES/MEDICINE 523 – CLINICAL EXERCISE TESTING & TRAINING**

3 credits.

Physiological basis and methods of human exercise testing and training. Topics: clinical exercise physiology, exercise testing protocols, cardiopulmonary monitoring, basic ECG interpretation, exercise prescription.

**Requisites:** KINES 314 or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NURSING/POP HLTH 525 – NURSING LEADERSHIP FOR GLOBAL HEALTH**

2-3 credits.

This course is designed to prepare undergraduate and graduate nursing students for leadership in global health (GH) by examining their GH goals in a course framework that integrates knowledge from nursing with contemporary GH knowledge. Directed toward improving health of the global population as a whole, the framework addresses health trends, practice frameworks, the ecological model, ethics, nursing leadership roles, concepts of partnership and evidence-based practice. Students' learning activity will be tailored to their program level (undergraduate/graduate), their interests and the number of credits they register for.

**Requisites:** Junior standing and declared in a Nursing program

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**NURSING 564 – NURSING AND HEALTH INFORMATICS**

3 credits.

Identification of computer and information technologies to support nursing in the diagnosis and treatment of human responses to health, illness, and development challenges. Examination of information systems used in clinical practice, information processing challenges and nurses' roles in the evaluation of informatics solutions. Ethical, legal and social issues related to informatics in patient care.

**Requisites:** Jr St or cons inst

**Repeatable for Credit:** No

**Last Taught:** Summer 2015

**NURSING 590 – CONTEMPORARY PRACTICES IN NURSING**

1-4 credits.

Health problems and their nursing management, e.g., critical care nursing, health promotion and prevention of disease, nursing of developmental disabilities.

**Requisites:** Cons inst

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**NURSING 601 – ADVANCED ASSESSMENT**

3-4 credits.

Course focuses on development of advanced assessment and physical examination skills. Separate sections focus on different settings (acute care, primary care) and clinical populations (adult, aging, pediatrics, women's health). Grad st or cons inst

**Requisites:** Intro crse in health physical assessment.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**NURSING/PHM PRAC 605 – PHARMACOTHERAPEUTICS FOR ADVANCED PRACTICE NURSES**

3 credits.

Pharmacotherapeutics content and application for advanced practice nursing. Emphasis on selection of appropriate therapeutics, development of clinical decision-making skills, and examination of legal, ethical, and safety issues in prescribing medications.

**Requisites:** Declared in a School of Nursing graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NURSING 657 – CLINICAL PSYCHOPHARMACOLOGY**

3 credits.

This course examines the history, rationale and mechanism of action of drugs used in the treatment of mental health and behavioral disorders. Emphasis is placed on neurobiological processes underlying psychopathology and clinical application of evidence-based pharmacological interventions across the lifespan. In addition, the course focuses on pharmacokinetics, pharmacodynamics, side-effects, drug interactions, therapeutic monitoring and variations in special populations. Finally, this course will review prescriptive authority, the potential impact of the current mental health care service system and ethical decision making for health care professionals.

**Requisites:** Declared in Doctor of Nursing Practice or Capstone Certificate in Post-Graduate Psychiatric Nursing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**NURSING 660 – RELAXATION STRATEGIES: TOOLS FOR PRACTICE**

1 credit.

Addresses the physiology of stress and relaxation, various strategies for facilitating relaxation and evidence for the same; provides opportunities to experience selected relaxation strategies.

**Requisites:** Preference given to those with Jr st and above

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**NURSING/PHM PRAC 674 – SEMINARS IN INTERPROFESSIONAL MENTAL HEALTH CARE**

2 credits.

Addresses the team-based and patient-centered care of persons with mental health conditions. A special focus will be put on the management of psychotropic medication regimens. A combination of lecture, discussion, and small group work will be utilized.

**Requisites:** PHM PRAC 555

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NURSING 679 – NURSING HONORS RESEARCH SEMINAR**

2 credits.

Provides students with the opportunity to learn more about the generation of nursing knowledge and about School of Nursing faculty members' research projects. It introduces students to the principles, methods, and ethics of nursing research, strategies to evaluate the quality of research, and the importance of research for improving clinical practice.

**Requisites:** Declared in the Nursing Honors program

**Repeatable for Credit:** No

**NURSING 680 – HONORS SEMINAR**

1 credit.

Provides honors students with an opportunity to learn about faculty research interests.

**Requisites:** Admission to the School of Nursing honors program

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**NURSING 681 – SENIOR HONORS THESIS**

1-2 credits.

The senior honors thesis is directed experience with selected aspects of the research process. One credit is required.

**Requisites:** Honors admission; cons inst

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 682 – SENIOR HONORS THESIS**

1-2 credits.

The senior honors thesis is a directed experience with selected aspects of the research process. One credit is required.

**Requisites:** Honors admission, cons inst, NURSING 681

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NURSING 698 – DIRECTED STUDY IN NURSING**

1-6 credits.

Directed study offers the student an opportunity to work with a faculty member on an individual study program.

**Requisites:** Jr st cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**NURSING 699 – DIRECTED STUDY IN NURSING**

1-4 credits.

**Requisites:** Jr st cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017



**NURSING 700 – NURSING RESEARCH I**

3 credits.

Techniques of data analysis, research design, tabulation and statistical computation, scale construction, coding and computer processing of data in nursing research.

**Requisites:** Grad st or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2010**NURSING 701 – INTERPRETIVE RESEARCH IN HEALTH CARE SETTINGS**

3 credits.

This course is designed to introduce graduate students to a variety of interpretive research methods and to explore how these methods have been/could be used to examine health care in general and nursing care in particular.

**Requisites:** Master's level or above**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2011**NURSING 702 – HEALTH PROMOTION AND DISEASE PREVENTION IN DIVERSE COMMUNITIES**

3 credits.

Health promotion and disease prevention interventions are examined for populations, incorporating multidisciplinary approaches. Focuses on developing increased knowledge, appreciation, and skills for health promotion and disease prevention among diverse communities. Addresses epidemiological, individual, socio-economic, and environmental factors related to health status. Proposes strategies to reduce health disparities among vulnerable populations.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**NURSING 703 – HEALTH CARE AND PUBLIC POLICY IN THE US**

3 credits.

This course addresses major U.S. health policy issues and the institutions, processes and forces that shape them. Policy issues include Medicare, Medicaid, the uninsured, public health, state and federal health care 'reform', policy implementation, managed care and others. The course addresses health care policy in terms of legislative and executive processes at the state and federal levels; key forces involved in policy making, including economic, social, ethical and political factors; and the central players involved in policy-making, including elected officials, interest groups, the press and legislative staff. Discussion will include the role and responsibility of nurse leaders and the influence of practice and research on policy-making.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**NURSING 704 – LEADERSHIP IN ADVANCED PRACTICE NURSING I**

3 credits.

Transition and expansion of leadership role for advanced practice. Emphasis on the development of effective, ethical leadership styles; interpretation of legal and professional requirements and regulations; examination of the ethics, values, beliefs, and norms of decision-making in interdisciplinary, collaborative practice.

**Requisites:** Declared in Nursing graduate program or Doctor of Nursing program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**NURSING/MEDICINE/POP HLTH 705 – SEMINAR IN INTERDISCIPLINARY CLINICAL RESEARCH EVIDENCE**

2 credits.

Exploration of interdisciplinary clinical research questions including strategies for assessing the evidence and conducting a systematic review of research. An interdisciplinary perspective is emphasized throughout the course.

**Requisites:** POP HLTH/SOC/POP HLTH 797 and BMI/STAT/B M I 542**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**NURSING 706 – NURSING RESEARCH**

3 credits.

Examines a variety of research methods available to address health care problems and issues in general, and nursing in particular.

**Requisites:** Grad st in nursing or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**NURSING 707 – LEADERSHIP FOR ADVANCED PRACTICE NURSES**

1 credit.

Develops professional leadership skills and practices within nursing health care systems with emphasis on interprofessional collaboration. This course is specifically designed for post masters advanced practice nurses.

**Requisites:** Master Degree (Nursing)**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013



**NURSING 708 – ETHICS FOR ADVANCED PRACTICE IN HEALTH CARE**  
2 credits.

The emphasis of the course is on exploration of ethical knowledge development with a focus on clarification, analysis and justification relevant to advanced nursing practice; examination and development of learners' moral understanding; and distinguishing between moral and other professional responsibilities. g., for other graduate students in health sciences)

**Requisites:** Admission to the DNP program or cons inst (e.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**NURSING 713 – FAMILY PROCESS, HEALTH AND ILLNESS**  
3 credits.

Analysis of structure and dynamics of traditional and variant family forms utilizing selected conceptual frameworks. Family utilization and health belief systems. Application of substantive and theoretical family research to improvement of family and health illness system transactions. Selected family contacts.

**Requisites:** Grad st and general course in the family

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**NURSING 719 – INDEPENDENT FIELD STUDY IN CLINICAL NURSING**  
1-6 credits.

Concentrated study and field work in a selected area of clinical nursing.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**NURSING 721 – ADVANCED MEDICAL-SURGICAL NURSING**  
3 credits.

Contemporary approaches to the field with emphasis on the potential of each for integrating concepts from the basic sciences and medicine and for defining problem areas for study and research in nursing.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**NURSING 722 – ADVANCED PRACTICE NURSING THEORY: ADULTS AND OLDER ADULTS**  
3 credits.

This course will examine theoretical perspectives and evidence-based approaches to human responses to health and illness during adulthood and old age. Concepts and research from multiple disciplines will be examined as a framework for reflective practice with adults.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 726 – FOUNDATIONS FOR APN CLINICAL PRACTICE I**  
3 credits.

Designed to advance students' knowledge for clinical decision making. Health promotion, illness prevention and common health conditions are emphasized. Content tailored to APN role and population focus.

**Requisites:** N601, N605, N811, concurrent enrollment in N728, or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**NURSING 727 – FOUNDATIONS FOR APN CLINICAL PRACTICE II**  
3 credits.

Designed to continue to advance students' knowledge for clinical decision-making. Complex and chronic health conditions are emphasized while continuing to promote health maintenance within the context of existing health problems. Content tailored to APN role and population focus.

**Requisites:** N726, N728, concurrent enrollment in N729, or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**NURSING 728 – ADVANCED PRACTICE CLINICAL APPLICATION AND ROLE DEVELOPMENT I**  
1-4 credits.

Supervised clinical practicum focuses on the continued development and application of advanced health promotion, assessment and clinical management skills within the context of chronic illness and complex health issues. Practicum tailored to APN role and population focus.

**Requisites:** N728, concurrent enrollment in N727, or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**NURSING 729 – ADVANCED PRACTICE CLINICAL APPLICATION AND ROLE DEVELOPMENT II**

1-4 credits.

Supervised clinical practicum focuses on the continued development and application of advanced health promotion, assessment and clinical management skills within the context of chronic illness and complex health issues. Practicum tailored to APN role and population focus.

**Requisites:** N728, concurrent enrollment in N727, or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**NURSING/GENETICS/MD GENET/PEDIAT 731 – ADVANCED CLINICAL GENETICS CONCEPTS**

3 credits.

An advanced course covering clinical genetic concepts including phenotype, genetic mechanisms, approach to diagnosis (medical, clinical and genetic testing protocols), and natural history (including management approaches). While specific for Genetic Counselor Studies students other healthcare providers are allowed if they have sufficient genetic background knowledge.

**Requisites:** Declared in Master of Genetic Counselor Studies program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 733 – DYNAMICS OF CHILDBEARING: BIRTH AND THE POSTBIRTH PERIOD**

3 credits.

Theory, research, and clinical data which direct the nursing management of women during birth and postbirth period.

**Requisites:** Nurs 540 or equiv; Grad st; Nurs 700 or equiv or con reg; con reg in Nurs 613 or 719 or access to a clinical population; or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**NURSING/GEN&WS 735 – HEALTH PROMOTION AND DISEASE PREVENTION FOR WOMEN ACROSS THE LIFESPAN**

3 credits.

Identification of health concerns for women, recognizing differences among age, socioeconomic, and ethnic groups; synthesis of biophysiological, psychosocial, and cultural influences of such health concerns; analysis and proposal of interventions to promote overall health and to prevent problems among women.

**Requisites:** Grad st and a course in research design or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**NURSING 740 – ISSUES IN NURSING CARE OF CHILDREN WITH CHRONIC ILLNESS IN THE SCHOOLS**

1 credit.

Seminar provides an opportunity for students, faculty, and professionals in the community to discuss emerging issues in the field of school nursing care of children with chronic health conditions. Seminar introduces students to professional development issues commonly experienced by professionals working with children with chronic illnesses and how these issues impact the nurse practicing in the school setting.

**Requisites:** Graduate standing, certificate student or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**NURSING 741 – ADVANCED PRACTICE NURSING THEORY: FAMILY PROCESS & CHILD DEVELOPMENT**

3 credits.

Analyzes selected family and child development theories and research that inform advanced practice nursing. Applies these concepts to assess child and family needs, enhance the parent-child relationship, and develop family-centered, culturally responsive interventions in health and illness.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING/PEDIAT/PHM PRAC/SOC WORK 746 – INTERDISCIPLINARY CARE OF CHILDREN WITH SPECIAL HEALTH CARE NEEDS**

3 credits.

Interdisciplinary team care of children with special health care needs across the trajectory of illness presented within the context of family, culture, social determinants of health, community, and healthcare policy. Students introduced to interdisciplinary, collaborative, family-centered team care.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 747 – PRACTICUM IN A SELECTED FUNCTIONAL AREA**

8 credits.

Guided practicum in teaching consultation, or clinical specialist roles; students assigned to a teaching department, a nursing unit, or a cooperating community health agency according to interest.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2012

**NURSING 751 – ADVANCED PRACTICE NURSING THEORY: PSYCHIATRIC MENTAL HEALTH**

3 credits.

Analysis and integration of selected theories and models in psychotherapy, neuroscience, mental health, psychiatric disorders, and advanced psychiatric mental health nursing in complex care settings with diverse patients, communities, and populations.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 753 – ADVANCED PRACTICE NURSING WITH COMMON MENTAL DISORDERS**

3 credits.

Students will critically examine a wide range of clinical research literature. Seminar discussions will focus on advanced nursing practice and recovery and rehabilitation strategies with common anxiety, depression, substance, and eating disorders.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**NURSING 754 – ADVANCED PRACTICE NURSING: SEVERE MENTAL DISORDERS**

3 credits.

This course focuses on advanced psychiatric-mental health nursing. Students will critically examine severe mental disorders within the context of recovery and rehabilitation.

**Requisites:** Grad st or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**NURSING 755 – ADVANCED PRACTICE NURSING: MENTAL HEALTH PROMOTION**

3 credits.

This course addresses theory, research and practice in mental health promotion and mental illness prevention. Content includes a critical analysis of major issues in conceptualizing mental health, studying stress and coping, and developing knowledge related to nursing interventions.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**NURSING/PHARMACY/PHY ASST/PHY THER/POP HLTH 758 – INTERPROFESSIONAL PUBLIC HEALTH LEADERSHIP**

1 credit.

Provides students with an opportunity to engage in collaboration, problem solving and teamwork in an interdisciplinary framework as they prepare an Interprofessional Case Competition (Fall) or as they prepare a collaborative case conference for the health professional students on campus (Spring). As students from different healthcare and public health backgrounds interact, learn together and share their experiences, they will become better prepared to lead and collaborate professionally in the future.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 761 – HEALTH PROGRAM PLANNING, EVALUATION, AND QUALITY IMPROVEMENT**

3 credits.

Provides content in theory, concepts, and methods of program planning and evaluation in the context of health care and community health organizations. Provides basic concept related to designing and implementing health services quality improvement projects.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NURSING 764 – NURSING AND HEALTH INFORMATICS**

3 credits.

Application of computer and information technologies to support nursing in the diagnosis and treatment of human responses to health, illness, and developmental challenges. Identification of information processing challenges and evaluation of informatics solutions. Ethical, legal and social issues related to informatics in patient care.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**NURSING/LAW/MED SC-M 768 – CONSUMER HEALTH ADVOCACY AND PATIENT-CENTERED CARE CLINICAL**

1-7 credits.

Interdisciplinary health advocacy clinical supervised by diverse professional staff. Provide broad advocacy to patients with life-threatening and serious chronic illnesses. Advocacy topics include: medical decision-making, insurance, medical debt, disability issues. Weekly discussions of patient cases and related guest lectures.

**Requisites:** Graduate or Professional standing or acceptance in Capstone Certificate in Consumer Health Advocacy

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**NURSING/LAW/MED SC-M 769 – CONSUMER ISSUES IN HEALTH CARE**  
1-3 credits.

Explores consumer issues in health care delivery in interdisciplinary discussion-based format. Covers current delivery system, expenditures/finance, managed care/insurance, barriers to access, reform, and other select topics. Ideal for future healthcare providers and others interested in patients' experiences.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**NURSING 772 – LEADERSHIP AND ORGANIZATIONAL DECISION-MAKING IN HEALTH CARE**  
3 credits.

Provides advanced practice nurses with competencies (attitudes, knowledge and skills) to improve patient, organizational, and health systems performance outcomes. Effective organizational and systems leadership will help to eliminate health disparities, promote patient safety and excellence in practice.

**Requisites:** Grad st in nursing or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 785 – FOUNDATIONS OF CURRICULUM DEVELOPMENT AND EVALUATION IN NURSING EDUCATION**  
3 credits.

Examination and application of knowledge and skills related to curriculum planning, implementation, and evaluation for nursing education. Emphasis on history and philosophy of nursing curricula, models of curriculum and evaluation, and strategies for change and innovation.

**Requisites:** Grad st in nursing, grad research crse or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NURSING 786 – FOUNDATIONS OF TEACHING AND LEARNING IN NURSING**  
3 credits.

The focus of this course is the planning, implementing, and evaluation of teaching and learning strategies for nursing education within diverse settings and student populations.

**Requisites:** NURSING 785

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NURSING 787 – NURSING EDUCATION PRACTICUM**  
1-3 credits.

Application of knowledge and skills in the nurse educator role in selected educational environments (classroom, clinical, laboratory and/or communities). Seminar component included for discussion of instructional experiences and issues.

**Requisites:** NURSING 785 and 786 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 788 – SPECIAL TOPICS IN EDUCATION IN NURSING**  
1-3 credits.

Examination of current topics and issues in nursing education.

**Requisites:** Grad St in Nursing or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**NURSING 798 – MASTER'S RESEARCH PRACTICUM**  
3 credits.

The goal of the research practicum is to promote the student's learning of the research process in nursing through direct experience. Students work closely with faculty to determine the nature, scope and design of the research experience.

**Requisites:** NURSING 700 or 701

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**NURSING 799 – INDEPENDENT STUDY**  
1-6 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**NURSING 802 – ETHICS AND THE RESPONSIBLE CONDUCT OF RESEARCH**  
1 credit.

Ethical issues in the design, conduct and reporting of research are examined in the context of the nature of the scientific endeavor, the structure of the research community, and professional and federal guidelines for supporting scientific integrity and controlling misconduct.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NURSING 803 – ADVANCED QUANTITATIVE DESIGN AND METHODS**

3 credits.

One of two research courses in the PhD program in nursing, this course focuses on the conduct of research primarily from empirical, analytical traditions. In the course, students will: \* Address the integration of research paradigms, questions, designs, and methods for such research \* Compare details, characteristics, strengths and limitations of alternative research designs and methods \* Discuss issues and standards for preparing research proposals for different purposes (e.g., institutional review boards for human subjects, NIH) to advance the nursing discipline.

**Requisites:** PhD student in nursing and course in graduate statistics or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NURSING 804 – ADVANCED QUALITATIVE DESIGN AND METHODS**

3 credits.

One of two research courses in the graduate PhD program in nursing, this course focuses on how to conduct qualitative research. Content addressed the philosophical underpinnings of various interpretive qualitative methodologies to assist students in matching the best method to particular research questions. The class format also offers students opportunities to engage in research procedures associated with various qualitative traditions.

**Requisites:** NURSING 803 or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 805 – MEASUREMENT IN HEALTH RESEARCH**

3 credits.

Major issues in developing, testing, and using research instruments, including links between concepts, variables, and measures; theories of measurement and scaling, including reliability and validity testing; and using measures in research.

**Requisites:** An intro crse in stats, Grad st or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**NURSING 806 – EVALUATION AND APPLICATION OF EVIDENCE-BASED PRACTICE**

3 credits.

This course evaluates collective evidence and applies it, as appropriate, as a basis for improving nursing practice, health care, and healthcare outcomes.

**Requisites:** Grad st in nursing or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 811 – ADVANCED PATHOPHYSIOLOGY**

3 credits.

In-depth study of selected physiological and pathophysiological concepts with application to advanced clinical practice across the lifespan.

**Requisites:** Declared in Nursing graduate program or Doctor of Nursing program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 815 – KNOWLEDGE DEVELOPMENT IN NURSING**

3 credits.

Examination of the history of the discipline of nursing, with emphasis on the evolution of debates regarding what is known and how it is known.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 816 – PROSEMINAR IN NURSING RESEARCH**

1 credit.

This seminar focuses on professional development and socialization to the role of nurse scientist. Topics emphasize development of career paths leading to productive research, scholarly publication / presentation, master teaching, and academic leadership. Discussion includes current topics in nursing research, especially as illustrated by the planned and ongoing research of graduate students and faculty in nursing. Two semesters are required; one in the first year of doctoral study and one as the student is nearing completion of course work.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**NURSING 817 – RESEARCH IN COMMUNITIES, POPULATIONS, AND SYSTEMS**

3 credits.

Examination of concepts and methods of research directed toward health improvement of communities, populations, and systems. The course will provide a foundation for future development of community, populations, and systems research including methods and design, economic analysis, and considering social determinants of health.

**Requisites:** NURSING 815 or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011



**NURSING 818 – PATIENT-CENTERED RESEARCH**

3 credits.

This course addresses conceptual and methodological perspectives in how patient-centered research and family-centered care research is conducted, from the development through the testing and implementation of interventions. Attention is given to various conceptualizations of patient-centeredness, to the behavioral and physiological origins of patient-centered interventions, family-centered care interventions, and to the trajectory of testing such interventions, from descriptive studies to experimental trials.

**Requisites:** NURSING 815 a grad level research methods course or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NURSING 819 – CLINICAL FIELD PRACTICUM - RESEARCH IN HEALTH CARE SETTINGS**

3 credits.

This course provides a field experience in preparation for conducting clinical research in the health care setting that corresponds to the student's chosen health problem, phenomenon, or population of interest. Students will engage as participants and observers in the care setting to deepen their knowledge of the selected health problem and to examine the application of theory and research in the care setting. Students will negotiate a field experience with a selected agency or institution and participate in biweekly seminars. Completion of at least one graduate level theory course in the population or phenomenon of interest. Completion of at least one graduate level research course.

**Requisites:** Graduate student standing.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**NURSING 826 – FOUNDATIONS FOR APN CLINICAL PRACTICE III**

3 credits.

Designed to continue to advance students' knowledge for clinical decision-making. Coordination of complex care across systems and settings will be emphasized. Content tailored to APN role and population focus.

**Requisites:** N727, N729, concurrent enrollment in N828, or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**NURSING 828 – CLINICAL LEADERSHIP III**

1-4 credits.

The focus of the Doctorate of Nursing Practice supervised clinical practice course is to enhance clinical leadership skills within the role of an Advanced Practice Nurse. Students collaborate with a faculty course professor and clinical preceptor to meet individualized learning objectives.

**Requisites:** Clinical II or equivalent

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**NURSING 829 – CLINICAL LEADERSHIP IV**

1-4 credits.

The focus of this Doctor of Nursing Practice supervised clinical practice course is to continue to enhance clinical leadership skills within the role of an Advanced Practice Nurse. Students collaborate with a faculty course professor and clinical preceptor to meet individualized learning objectives.

**Requisites:** NURSING 828

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**NURSING 847 – HEALTH POLICY PRACTICUM**

3 credits.

This course provides a public policy field experience that corresponds to the student's selected clinical problem, phenomenon, or population of interest. Students will examine how a policy or set of policies can influence what leaders perceive as a clinical problem and how a patient population experiences a particular problem or phenomenon. Students will negotiate a policy experience with a selected agency or institution and participate in biweekly seminars. Completion of NURSING 703 or similar health policy course. Completion of at least one graduate level research course.

**Requisites:** Graduate student standing.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**NURSING/ED PSYCH/HDFS/SOC WORK 880 – PREVENTION SCIENCE**

3 credits.

This course provides a theoretical, empirical and practical foundation for prevention science as it relates to the prevention of human social problems. Research and evaluation methods, program design strategies, best practices and policy as they relate to the field of prevention are also examined. Intended for 2nd year graduate students.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**NURSING/ED PSYCH/HDFS/SOC WORK 881 – CAPSTONE SEMINAR IN PREVENTION SCIENCE**

1 credit.

This course provides an opportunity for students to meet with prevention professionals and scholars from across campus and the community to explore current and emerging issues of prevention research and professional practice. Students must complete HDFS/ED PSYCH/NURSING/SOC WORK 880 before taking this course.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**NURSING 906 – SCHOLARLY PROJECT**

1-4 credits.

Independent scholarly project involves a systematic, evidence-based approach to enhance health-related outcomes. Project completed over two to three semesters.

**Requisites:** Grad statistics crse, NURSING 706 and NURSING 806**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, for 3 number of completions**Last Taught:** Fall 2017**NURSING 990 – THESIS RESEARCH**

1-9 credits.

**Requisites:** Grad st thesis comm approval**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**NURSING 991 – SEMINAR IN NURSING RESEARCH**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2010**NURSING 999 – ADVANCED INDEPENDENT STUDY**

1-9 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**NUTRITIONAL SCIENCES (NUTR SCI)****NUTR SCI 1 – COOPERATIVE EDUCATION/CO-OP IN NUTRITIONAL SCIENCE**

1 credit.

Full-time off-campus work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career. Students receive credit only for the term in which they are actively enrolled and working. The same work experience may not count towards credit in Nutr Sci 399.

**Requisites:** So st, and consent of supervising instructor and academic advisor.**Repeatable for Credit:** Yes, unlimited number of completions**NUTR SCI 132 – NUTRITION TODAY**

3 credits.

Nutrition and its relationship to humans and their biological, social, and physical environment; current issues and concerns that affect the nutritional status of various population groups. Open to Fr

**Requisites:** Not open to stdts eligible for Nutr Sci 332.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**NUTR SCI 200 – THE PROFESSIONS OF DIETETICS AND NUTRITION**

1 credit.

An overview of the nutrition and dietetics professions: career options; professional and portfolio development; professional references and resources; credentialing; and professional issues.

**Requisites:** Must have either Pre-Dietetics (PDI) or Dietetics (ADI) major classification**Repeatable for Credit:** No**Last Taught:** Fall 2017**NUTR SCI/AGRONOMY/ENTOM 203 – INTRODUCTION TO GLOBAL HEALTH**

3 credits.

Introduces students to global health concepts through multidisciplinary speakers dedicated to improving health through their unique training. It targets students with an interest in public health and those who wish to learn how their field impacts their global issues.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**NUTR SCI 289 – HONORS INDEPENDENT STUDY**

1-2 credits.

Inter-Ag 288

**Requisites:** Enrolled in the CALS Honors Prgm Sophomore or Junior standing.**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2006**NUTR SCI 299 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Open to Freshmen, Sophomore or Junior standing written consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**NUTR SCI/AN SCI/DY SCI 311 – COMPARATIVE ANIMAL NUTRITION**

3 credits.

Nutrients and their source, assimilation, function and requirement.

**Requisites:** BmolChem 314 or CHEM 341 or CHEM 343 or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**NUTR SCI 332 – HUMAN NUTRITIONAL NEEDS**

3 credits.

Lectures, discussion. Biological basis of the nutritional requirements of humans and the influence of psychological and societal factors on the manner of their fulfillment.

**Requisites:** CHEM 103 and BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151, BIOLOGY/ZOOLOGY/BIOLOGY 101, or BIOCORE 381**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**NUTR SCI/A A E/AGRONOMY/INTER-AG 350 – WORLD HUNGER AND MALNUTRITION**

3 credits.

Hunger and poverty in developing countries and the United States. Topics include: nutrition and health, population, food production and availability, and income distribution and employment.

**Requisites:** None**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**NUTR SCI 375 – SPECIAL TOPICS**

1-4 credits.

Subjects of current interest to undergraduates.

**Requisites:** Cons inst**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**NUTR SCI 399 – COORDINATIVE INTERNSHIP/COOPERATIVE EDUCATION**

1-8 credits.

**Requisites:** So or Jr or Sr st cons supervising inst, advisor internship program coordinator**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**NUTR SCI 400 – STUDY ABROAD IN NUTRITIONAL SCIENCES**

1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. W.-Madison Study Abroad Program

**Requisites:** Current registration in a U.**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2010**NUTR SCI/INTER-AG 421 – GLOBAL HEALTH FIELD EXPERIENCE**

1-4 credits.

Undergraduate global health field experiences address a broad range of health topics including nutrition, primary health care, water and sanitation, climate change, sustainable agriculture, and economic development. These field experiences take place in sites around the world including locations in Africa, Asia, Latin America, Europe, and the United States. Engaged learning will include participation in applied public health activities and service learning projects with communities and partner organizations. Students will gain knowledge about health and disease and explore interdisciplinary approaches to health. Field experiences are designed to meet the requirement for the Undergraduate Certificate in Global Health. Students who are not planning to complete the Certificate in Global Health may enroll as space permits.

**Requisites:** Consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**NUTR SCI 431 – NUTRITION IN THE LIFE SPAN**

3 credits.

Influence of nutrition on growth and development; physiological basis of nutritional requirements throughout the life span, including the relationship of food habits and nutrition to selected chronic diseases; principles of nutritional intervention in community programs.

**Requisites:** Students must have junior standing or higher and a final grade of C or higher in both Physiology 335 and Nutritional Sciences 332**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**NUTR SCI 499 – CAPSTONE IN NUTRITION**

2 credits.

Capstone in the nutritional sciences, emphasis is on the integration of nutritional knowledge and the interpretation and application of nutrition-oriented research.

**Requisites:** Sr st Nutr Sci 431; Nutr Sci 510 or con reg

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**NUTR SCI 500 – UNDERGRADUATE CAPSTONE SEMINAR LABORATORY**

1 credit.

Current topics in Nutritional Sciences and undergraduate research presentations. Enrollment limited to Nutritional Sciences majors.

**Requisites:** Nutr Sci 431 and Nutr Sci 510 (or con reg) and Sr st or second sem Jr st in Nutritional Sciences major or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NUTR SCI/BIOCHEM 510 – BIOCHEMICAL PRINCIPLES OF HUMAN AND ANIMAL NUTRITION**

3 credits.

Lectures in nutrition for students with a substantial background in biochemistry. Emphasis on biochemical and physiological fundamentals of nutrition. Discussion of protein, fat, carbohydrate, energy, minerals and vitamins and their roles and interrelationships in nutrition and metabolism.

**Requisites:** (BMOLCHEM 314 or 503) or (BIOCHEM 501 or 507)

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NUTR SCI 520 – APPLICATIONS IN CLINICAL NUTRITION**

3 credits.

Capstone course includes clinical problem solving, assessing medical record data, evaluating food intake, planning modified diets, and reviewing medical and research literature. Develops critical thinking, teamwork and communication skills needed by the dietetic intern and dietitian.

**Requisites:** Nutr Sci 631 Nutr Sci 500 (or con reg) Sr in Dietetics major-Didactic Prgm or Sr in Nutr Sci Major, Nat Sci opt cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NUTR SCI/KINES 525 – NUTRITION IN PHYSICAL ACTIVITY AND HEALTH**

3 credits.

The purpose of this course is to provide undergraduate and graduate students with both scientific knowledge and application of nutrition related to exercise, health, and sports.

**Requisites:** Admission to Kinesiology(Athletic Training, Exercise and Movement Science, or Physical Education Teacher Education) or Nutritional Science major and Physiology 335

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NUTR SCI 540 – COMMUNITY NUTRITION PROGRAMS AND POLICY ISSUES**

1 credit.

Students will increase their understanding of community-based nutrition needs, intervention programs and policy issues in the U.S. Written assignments will demonstrate students' positions on related issues.

**Requisites:** NUTR SCI 431

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**NUTR SCI 600 – INTRODUCTORY SEMINAR IN NUTRITION**

1 credit.

Presentation of reports from current journals of nutritional sciences.

**Requisites:** Cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NUTR SCI/BIOCHEM 619 – ADVANCED NUTRITION: INTERMEDIARY METABOLISM OF MACRONUTRIENTS**

3 credits.

Discuss metabolic control; gastrointestinal physiology, nutrient absorption; molecular, cellular, organismal aspects of glucose transport, metabolism, regulation; fuel sensing; molecular regulation of fatty acid, lipid metabolism; cellular, organismal aspects of protein metabolism; hormonal control of metabolism; experimental approaches for studying metabolism.

**Requisites:** Grad st; Nutr Sci 510 or BIOCHEM 507 508 or BMOLCHEM 503 (or con reg) or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NUTR SCI/POP HLTH 621 – INTRODUCTION TO NUTRITIONAL EPIDEMIOLOGY**

1 credit.

Techniques used to evaluate relationships of diet to health and disease in human populations; integration of knowledge gained with results of animal and clinical studies toward understanding dietary risk or protective factors for disease. Includes advanced diet assessment and basic epidemiologic approaches.

**Requisites:** STAT 301 or equiv Nutr Sci 332 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**NUTR SCI/M&ENVTOX 623 – ADVANCED NUTRITION: MINERALS**

1 credit.

Topics discussed in regard to minerals are: metabolic roles; absorption, excretion, transport and cellular metabolism; nutritional and toxicological standards for humans and animal models; bioavailability; genetic interactions; and research methodologies.

**Requisites:** BIOCHEM/NUTR SCI/BIOCHEM 510, PHYSIOL 335 and graduate standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**NUTR SCI 625 – ADVANCED NUTRITION: OBESITY AND DIABETES**

1 credit.

Physiology, biochemistry and genetics of human obesity and diabetes. Critical review of current research on their etiology and treatment.

**Requisites:** Grad st; Nutr Sci 619 or con reg PHYSIOL 335 or equiv or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NUTR SCI/AN SCI 626 – EXPERIMENTAL DIET DESIGN**

1 credit.

Discuss nutrient requirements, composition of ingredients used to meet requirements and the mathematical steps involved in diet formulation with emphasis on research animals and human subjects.

**Requisites:** Graduate student; Stats 301 or equivalent Nutr Sci 510 or concurrent enrollment or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NUTR SCI 627 – ADVANCED NUTRITION: VITAMINS**

1 credit.

Scientific knowledge of the metabolic functions, metabolism and nutritional requirements for some of the water soluble vitamins and all of the fat soluble vitamins.

**Requisites:** Graduate student; Nutr Sci 510 Physiology 335 or equivalent or concurrent enrollment or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NUTR SCI 631 – CLINICAL NUTRITION**

4 credits.

Body systems in relation to the alterations in nutrition and metabolism that accompany disease states. Research related to therapeutic nutrition.

**Requisites:** Nutr Sci 332, 431; BIOCHEM 501 or BmolChem 314; ADI classification or consent of instructor

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NUTR SCI 635 – ADVANCED CLINICAL NUTRITION**

1 credit.

Clinical nutrition and rationale for medical nutrition therapy in relation to the pathophysiology of specific disease states. Lectures, case studies and discussion of current research.

**Requisites:** Must have Nutritional Science 431 and Nutritional Science 631 (or current enrollment in Nutri Sci 631), and one of the following: Biochemistry 501 or Biomolecular Chemistry 314 or Biomolecular Chemistry 503.

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**NUTR SCI/BIOCHEM 645 – MOLECULAR CONTROL OF METABOLISM AND METABOLIC DISEASE**

3 credits.

Examination of various physiological states and how they affect metabolic pathways. Discussion of a number of special topics related to the unique roles of various tissues and to metabolic pathways in disease states, including adipocyte biology, beta-cell biology, epigenetics, inflammation, and aging related diseases.

**Requisites:** BIOCHEM 501 or 508 or graduate standing

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NUTR SCI 650 – ADVANCED CLINICAL NUTRITION: CRITICAL CARE AND NUTRITION SUPPORT**

3 credits.

This course provides advanced study of the metabolic demands of critical illness and how these alterations influence the nutritional needs of critical care patients in various disease states. Using an evidence-based medical approach, students will assess nutrient requirements and determine best methods of nutrient delivery in various disease states. Anthropometric measures and hematological indices will be incorporated to assess nutritional status and monitor response to nutritional therapies.

**Requisites:** Declared in the Capstone Certificate in Clinical Nutrition, or the Capstone Certificate in Clinical Nutrition - Dietetic Internship

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NUTR SCI 651 – ADVANCED CLINICAL NUTRITION - PEDIATRICS**

3 credits.

Pediatric nutritional requirements with emphasis on issues related to evidence-based medical nutrition therapy.

**Requisites:** Declared in the Capstone Certificate in Clinical Nutrition, or the Capstone Certificate in Clinical Nutrition - Dietetic Internship

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**NUTR SCI 652 – ADVANCED NUTRITION COUNSELING AND EDUCATION**

3 credits.

Application of current theories and techniques of counseling and education to the field of nutrition and dietetics. Practical application of communication techniques, client-centered counseling methods, motivational interviewing, learning theories and behavior change techniques, and factors affecting eating patterns. Nutrition psychology and the psychoanalytic approach to nutrition counseling will be emphasized in the class. Principles of group counseling/facilitation and instructional material/media design.

**Requisites:** Declared in the Capstone Certificate in Clinical Nutrition, or the Capstone Certificate in Clinical Nutrition - Dietetic Internship

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**NUTR SCI 653 – CLINICAL NUTRITION RESEARCH**

3 credits.

Research use and development as it applies to clinical nutrition practice: effective use of the literature in evidence based practice and research development, problem development, methodology, analysis and reporting of results and conclusions.

**Requisites:** Declared in the Capstone Certificate in Clinical Nutrition of the Capstone Certificate in Clinical Nutrition - Dietetic Internship

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NUTR SCI 670 – NUTRITION AND DIETETICS PRACTICUM I**

3 credits.

The first of two supervised practice experiences in nutrition and dietetics at University of Wisconsin Hospital and Clinics and affiliated sites. Dietetic interns apply their academic training, furthering their competency in: clinical nutrition, food systems management, research, and community experiences.

**Requisites:** Admission to the Capstone Certificate in Clinical Nutrition - Dietetic Internship

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NUTR SCI 671 – NUTRITION AND DIETETICS PRACTICUM II**

3 credits.

The second of two supervised practice experiences in nutrition and dietetics at University of Wisconsin Hospital and Clinics and affiliated sites. Dietetic interns apply their academic training, furthering their competency in: clinical nutrition, food systems management, research, and community experiences.

**Requisites:** Admission to the Capstone Certificate in Clinical Nutrition - Dietetic Internship

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NUTR SCI/PHM PRAC 672 – HERBALS, HOMEOPATHY, AND DIETARY SUPPLEMENTS**

2-3 credits.

Covers regulations and clinical science regarding the use of herbals, homeopathic remedies, and dietary supplements, focusing on peer-reviewed studies and integration with allopathic drugs; includes discussion of marketing issues.

**Requisites:** (PHM SCI 432 or BIOCHEM 501 or BMOLCHEM 314) and PHYSIOL 335

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**NUTR SCI 681 – SENIOR HONORS THESIS**

2-4 credits.

**Requisites:** Honors candidacy

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**NUTR SCI 682 – SENIOR HONORS THESIS**

2-4 credits.

Continuation of 681.

**Requisites:** Nutr Sci 681 and honors candidacy

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NUTR SCI 691 – SENIOR THESIS-NUTRITION**

1-4 credits.

**Requisites:** Senior standing consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2015



**NUTR SCI 692 – SENIOR THESIS**

1-4 credits.

**Requisites:** Nutr Sci 691; Sr st cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**NUTR SCI 699 – SPECIAL PROBLEMS**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**NUTR SCI 710 – HUMAN ENERGY METABOLISM**

2 credits.

Fundamentals in human macronutrient metabolism and its role in health and disease. Biochemistry and physiology of macronutrient digestion, anabolism, and catabolism. Disorders of energy metabolism (obesity, type 1 and type 2 diabetes, starvation). Metabolic effects of fiber and the microbiota. Body composition and energy assessment. Taught in an online format using lectures, guided readings, and projects. S. - Clinical Nutrition degree program

**Requisites:** Declared in M.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NUTR SCI 711 – PERSONALIZED NUTRITION: GENETICS, GENOMICS, AND METAGENOMICS**

1 credit.

Genetic factors that modulate the relationships between diet, health, and disease risks, including the effects of differences in our genetic makeup (Nutrigenetics), the regulation of gene expression by nutrients and dietary patterns (Nutrigenomics), and the interactions between diet, gut microbiome, and human hosts (Metagenomics). S. - Clinical Nutrition degree program

**Requisites:** Declared in M.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NUTR SCI 715 – MICRONUTRIENTS: HUMAN PHYSIOLOGY AND DISEASE**

3 credits.

Micronutrients explores the function of vitamins and essential mineral nutrients from the biochemical and nutritional perspective with emphasis on issues essential for clinical nutrition. S. - Clinical Nutrition degree program

**Requisites:** Declared in M.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**NUTR SCI 720 – ADVANCED NUTRITION ASSESSMENT**

1 credit.

Advanced skills and evolving methods of nutritional assessment. Measurement and interpretation of physical examination and laboratory parameters. Diagnosing malnutrition and nutrient deficiencies, including clinical characteristics used to identify and label the degree of malnutrition.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NUTR SCI 721 – NUTRITION INFORMATICS**

1 credit.

The emerging role of the electronic storage, retrieval and dissemination of food and nutrition related data and the effective use of information for problem solving and decision-making for the dietetics professional.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**NUTR SCI 725 – ADVANCED COMMUNITY NUTRITION**

1 credit.

Community nutrition as it applies to clinical nutrition practice: programs, resources and issues supporting clinical nutrition practice in the community. S. - Clinical Nutrition degree program

**Requisites:** Declared in M.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**NUTR SCI 799 – PRACTICUM IN NUTRITIONAL SCIENCES TEACHING**

1-3 credits.

Instructional orientation to teaching at the higher education level in the agricultural and life sciences, direct teaching experience under faculty supervision, experience in testing and evaluation of students, and the analysis of teaching performance.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**NUTR SCI 875 – SPECIAL TOPICS**

1-4 credits.

Subjects of current interest to Grads.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017



**NUTR SCI 881 – SEMINAR-TOPICS IN HUMAN AND CLINICAL NUTRITION**

1 credit.

Varied topics in clinical and human nutrition.

**Requisites:** NUTRI SCI 600**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**NUTR SCI/BIOCHEM 901 – SEMINAR-NUTRITION AND METABOLISM (ADVANCED)**

1 credit.

Presentation of original research results; discussion of recent articles in animal metabolism and nutrition.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**NUTR SCI 931 – SEMINAR-NUTRITION**

1 credit.

Seminar features expert presentations of current research and issue-based applications that represent the breadth of nutritional sciences; topics investigate problems "from molecules to communities".

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**NUTR SCI 991 – RESEARCH NUTRITION**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**NUTR SCI 993 – INDEPENDENT STUDY IN NUTRITION**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**OBSTETRICS AND GYNECOLOGY (OBS&GYN)****OBS&GYN 699 – DIRECTED STUDY**

1-12 credits.

Directed study projects as arranged with faculty member.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**OBS&GYN/POP HLTH 807 – REPRODUCTIVE AND PERINATAL EPIDEMIOLOGY**

2 credits.

The course provides students with an overview of the current knowledge and research in reproductive and perinatal epidemiology. Through reading of the primary and secondary literature, students examine issues related to topics such as fertility, preconception health, and perinatal outcomes including maternal morbidity and mortality, pregnancy loss, and infant outcomes. Current evidence-based strategies designed to improve reproductive and perinatal outcomes are reviewed. Long-term health implications of pregnancy and infant health are considered. The classes will be structured to include faculty-led lectures, discussions with guest faculty, and student-led discussions.

**Requisites:** POP HLTH/SOC/POP HLTH 797**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**OBS&GYN 812 – THIRD YEAR OBSTETRICS AND GYNECOLOGY**

1-6 credits.

**Requisites:** 3rd yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**OBS&GYN 875 – SPECIAL TOPICS**

2 credits.

The course aims to provide timely reviews or updates of significant methodologies or advances in reproductive biology (including that of non-human vertebrates). g. M.D., D.V.M., etc) cons inst

**Requisites:** Grad st or pro degree (e.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2009

**OBS&GYN 910 – INDEPENDENT READING AND RESEARCH FOR FOURTH YEAR MEDICAL STUDENTS**

1-16 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**OBS&GYN 919 – INDIVIDUALIZED FOURTH YEAR CLINICAL CLERKSHIP**

1-12 credits.

Individually arranged fourth year clinical clerkships. (Student must have Fourth Year Committee approval to count for fourth year credit.)

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**OBS&GYN 921 – GYNECOLOGIC ONCOLOGY CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**OBS&GYN 922 – INPATIENT-OUTPATIENT EXPERIENCE CLERKSHIP-MARSHFIELD**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**OBS&GYN 924 – REPRODUCTIVE MEDICINE CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2013**OBS&GYN 925 – HIGH RISK OBSTETRICS CLERKSHIP-MERITER**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**OBS&GYN 927 – OBSTETRICS AND GYNECOLOGY INPATIENT CLERKSHIP-LA CROSSE**

1-12 credits.

Clinical elective for fourth year medical students.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**OBS&GYN 928 – OBSTETRICS AND GYNECOLOGY OUTPATIENT CLERKSHIP-LA CROSSE**

2-12 credits.

Clinical elective for fourth year medical students.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**OBS&GYN 931 – WOMEN'S REPRODUCTIVE HEALTH**

2-4 credits.

This elective will provide outpatient clinical experiences in family planning, pregnancy counseling (including adoption), abortion services (optional), routine gynecologic care, STD screening/treatment, prenatal diagnosis and counseling, prenatal care, infertility, sexual assault services and adolescent gynecology.

**Requisites:** ObsGyn 812**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**OBS&GYN 932 – BENIGN GYNECOLOGY & UROGYNECOLOGY ELECTIVE**

4 credits.

This elective will provide medical students with an in-depth exposure to office and surgical benign gynecology and urogynecology in the hospital and clinic-based settings. The student will work under the direct supervision of a senior resident and the gynecology and urogynecology faculty. This rotation will provide the student with the opportunity to function at the intern level and play an active role in the pre-operative, intra-operative, and postoperative management of benign gynecological and urogynecological patients.

**Requisites:** Successful completion of OBS&GYN 812, Third Year Obstetrics and Gynecology Clerkship**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**OBS&GYN 933 – BENIGN GYNECOLOGY ELECTIVE**

4 credits.

The Benign Gynecology elective will provide medical students with an in-depth exposure to benign gynecology and gynecologic surgery in children, adolescents, and adult female patients in the hospital and clinic-based settings. The student will work under the direct supervision of a senior resident and the gynecology faculty. This rotation will provide the student with the opportunity to function at the intern level and play an active role in the pre-operative, intra-operative, and postoperative management of benign gynecological patients.

**Requisites:** Successful completion of OBS&GYN 812, Third Year Obstetrics and Gynecology Clerkship

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**OBS&GYN/AN SCI/ZOOLOGY 954 – SEMINAR IN ENDOCRINOLOGY-REPRODUCTIVE PHYSIOLOGY**

1 credit.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**OBS&GYN 955 – RESPONSIBLE CONDUCT OF RESEARCH FOR BIOMEDICAL GRADUATE STUDENTS**

2 credits.

Meets the NIH Institutional Training Grant requirements of instruction in the nine recommended areas of conflict of interest - personal, professional, and financial; policies regarding human subjects, live vertebrate animal subjects in research, and safe laboratory practices; mentor/mentee responsibilities and relationships; collaborative research including collaborations with industry; peer review; data acquisition and laboratory tools; management, sharing and ownership; research misconduct and policies for handling misconduct; responsible authorship and publication; the scientist as a responsible member of society, contemporary ethical issues in biomedical research, and the environmental and societal impacts of scientific research for MS and PHD graduate students in the Biological Sciences. Weekly lectures will be followed by small group discussion of reading assignments of case studies. Invited guest speakers and faculty will be the primary source of instruction for the first hour of the course.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**OBS&GYN 956 – ADVANCED RESPONSIBLE CONDUCT OF RESEARCH FOR BIOMEDICAL STUDENTS**

1 credit.

Follows course OBGYN 955 (for 1st year Graduate Trainees) to meet the NIH Institutional Training Grant requirements of repeat/further instruction in the nine recommended areas (1) conflict of interest - personal, professional, and financial; (2) policies regarding human subjects, live vertebrate animal subjects in research, and safe laboratory practices; (3) mentor/mentee responsibilities and relationships; (4) collaborative research including collaborations with industry; (5) peer review; (6) data acquisition and laboratory tools, and management, sharing and ownership; (7) research misconduct and policies for handling misconduct; (8) responsible authorship and publication; (9) the scientist as a responsible member of society, contemporary ethical issues in biomedical research, and the environmental and societal impacts of scientific research. OBGYN 955 provides first year biomedical graduate students with an introductory overview of these topics. OBGYN 956 is designed to provide advanced consideration of these topics to our more experienced students, and to illustrate how to \*implement\* these responsible conduct and ethical considerations into actual grant- and career-related documents. The course format typically includes lectures by invited guest speakers and faculty, followed by small group discussion of reading assignments of case studies.

**Requisites:** OBS&GYN 955, PHARMACY 800, NURSING 802, SURG SCI 812, or MICROBIO 901

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**OBS&GYN 990 – RESEARCH**

1-10 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## OCCUPATIONAL THERAPY (DEPARTMENT OF KINESIOLOGY) (OCC THER)

**OCC THER 100 – ORIENTATION TO OCCUPATIONAL THERAPY**

1 credit.

An opportunity to explore occupational therapy as a potential career; introduction to the general concepts of human occupation and adaptation; survey of OT practice settings and clinical groups.

**Requisites:** Open to Freshmen

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**OCC THER/L I S/NURSING 517 – DIGITAL HEALTH: INFORMATION AND TECHNOLOGIES SUPPORTING CONSUMERS AND PATIENTS**

3 credits.

This course is appropriate for undergraduate or graduate students considering careers in the health or allied health professions, service professions, and the social services, particularly those concerned with the medically underserved and members of racial/ethnic/socioeconomic minority groups. This course covers topics within the US context including: the identification of appropriate and accurate materials for consumer health and family education; the ethical and organizational policy issues that arise when providing consumer and family health information in different settings; the role of the public media in disseminating health information; the health-related information needs and preferences of racial/ethnic minority populations; and health information technologies, from search engines to websites to apps, that put people in charge of managing their own health information.

**Requisites:** Junior standing**Course Designation:** Breadth - Social Science  
Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**OCC THER 610 – PROFESSIONAL SKILLS I: PROFESSIONAL PRACTICE IN OCCUPATIONAL THERAPY**

2 credits.

The nature of professionalism and the development of the profession of occupational therapy; professional ethics; settings in which occupational therapists practice; the therapeutic process including principles of testing and measurement and documentation as these relate to occupational therapy practice.

**Requisites:** Current enrl in MS in occ ther or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**OCC THER 611 – PROFESSIONAL SKILLS II: COMMUNICATION & INTERPERSONAL SKILLS IN OT**

2 credits.

Communication with clients in occupational therapy, collaboration with other professionals about patient care and communicating with the public about occupational therapy; group dynamics and functional groups in occupational therapy; issues of culture and difference related to occupational therapy practice.

**Requisites:** Current enrl in MS in occ ther or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**OCC THER 612 – PROFESSIONAL SKILLS III: ORGANIZATION AND MANAGEMENT IN OT PRACTICE**

3 credits.

Principles and practices of organization and management and their application in both traditional and innovative occupational therapy practice settings.

**Requisites:** Current enrl in MS in occ ther or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**OCC THER 613 – PROFESSIONAL SKILLS IV: COMMUNITY-BASED OT PRACTICE**

2 credits.

Knowledge and skills related to the practice of occupational therapy in innovative practice settings including occupation-based program planning and grant writing. Offered during the final semester on campus, also addresses issues related to career development in occupational therapy.

**Requisites:** Current enrl in MS in occ ther or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**OCC THER 620 – OCCUPATIONAL-BASED THEORY AND PRACTICE**

2 credits.

Theories of human occupation. Research related to the form, function, and meaning of daily occupations for the individual and society.

**Requisites:** Current enrl in MS in occ ther or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**OCC THER 621 – ASSESSMENT OF OCCUPATIONAL PARTICIPATION**

3 credits.

Skills required for assessment of occupational participation in various settings including the demands inherent in occupations, an individual's capacity to participate in the occupation, and environmental factors constraining and supporting participation.

**Requisites:** Current enrl in MS in occ ther or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017

**OCC THER 622 – INFANT AND CHILDHOOD OCCUPATIONS AND THERAPEUTIC INTERVENTIONS**

4 credits.

Current research, theory, and core concepts relating to the therapeutic use of occupations to facilitate participation of children with disabilities and their families in everyday routines within their communities.

**Requisites:** Current enrl in MS in occ ther or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**OCC THER 623 – ADOLESCENT AND YOUNG ADULT OCCUPATIONS AND THERAPEUTIC INTERVENTIONS**

4 credits.

Theoretical foundations of occupational science related to occupational participation typically encountered during the adolescent and young adult years including the development of occupational engagement, conditions that may disrupt occupational roles, assessment, and therapeutic intervention processes.

**Requisites:** Current enrl in MS in occ ther or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**OCC THER 624 – MIDDLE AND LATE ADULTHOOD OCCUPATIONS AND THERAPEUTIC INTERVENTIONS**

4 credits.

Theoretical foundations of occupational science as related to occupational participation typically encountered during the middle and late adulthood including the development of occupational engagement, conditions that may disrupt occupational roles, assessment, and therapeutic intervention processes.

**Requisites:** Current enrl in MS in occ ther or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**OCC THER 625 – LEVEL-I FIELDWORK: INFANTS AND CHILDREN**

1 credit.

Supervised clinical experience involving occupational therapy practice with children; companion course to Ther Sci 622.

**Requisites:** Current enrl in MS in occ ther or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**OCC THER 626 – LEVEL-I FIELDWORK: ADOLESCENTS AND YOUNG ADULTS**

1 credit.

Supervised clinical experience involving occupational therapy practice with adolescents and young adults; companion course to Ther Sci 623.

**Requisites:** Current enrl in MS in occ ther or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**OCC THER 627 – LEVEL-I FIELDWORK: MIDDLE AND LATE ADULTHOOD**

1 credit.

Supervised clinical experience involving occupational therapy practice with adults and elders; companion course to Ther Sci 624.

**Requisites:** Current enrl in MS in occ ther or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**OCC THER 629 – MEDICAL LECTURES FOR OCCUPATIONAL THERAPY**

2 credits.

The study of medical and surgical management of individuals with a variety of orthopedic and neurological conditions relevant to occupational therapy practice. Lectures are presented by UW Hospital medical staff and occupational therapists experienced in the treatment of these conditions.

**Requisites:** ANATOMY 622; current enrl in MS in occ ther prgm or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**OCC THER 640 – APPLIED NEUROANATOMY FOR ALLIED HEALTH PROFESSIONALS**

3 credits.

Overview of neuroanatomical structures relevant for students in allied health professional training who work with clinical populations. The anatomical regions deemed most significant to practice, given current understandings of the brain and its function, will be explored. The primary focus is on the anatomical regions, neurophysiology, and resultant observable phenomenology related to human function as well as practical clinical application and current research findings.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017



**OCC THER 662 – LEVEL II FIELDWORK A**

6 credits.

The first of two twelve-week, full-time supervised experiences of applied occupational therapy practice. Student conducts evaluations and provides treatment under supervision for an assigned caseload in an approved practice setting. The student begins Level II fieldwork after all academic coursework has been successfully completed.

**Requisites:** Ther Sci 648, 649 cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**OCC THER 664 – LEVEL II FIELDWORK B**

6 credits.

The second of two twelve-week, full-time supervised experiences of applied occupational therapy practice. Student conducts evaluations and provides treatment under supervision for an assigned caseload in an approved practice setting. The student begins Level II fieldwork after all academic coursework has been successfully completed.

**Requisites:** Ther Sci 640, 641 cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**OCC THER 671 – SCIENTIFIC INQUIRY IN OT I: EVIDENCE-BASED PRACTICE.**

2 credits.

Addresses the role of evidence in supporting occupational therapy practice. Covers the concepts, methods, and strategies related to evidence-based practice. The goal is to encourage the development of critical reading and writing skills.

**Requisites:** Current enrl in MS in occ ther prgm or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**OCC THER 672 – SCIENTIFIC INQUIRY IN OCCUPATIONAL THERAPY II: RESEARCH DESIGN AND METHODS**

2 credits.

Supports the generation and use of evidence in occupational therapy practice. The course provides an overview of research design with particular relevance to understanding human occupation and the practice of occupational therapy.

**Requisites:** Current enrl in MS in occ ther prgm or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**OCC THER 673 – SCIENTIFIC INQUIRY IN OT III: DATA COLLECTION AND ANALYSIS.**

3 credits.

Supports the development of a research proposal and the skills needed to implement a research project. Through a series of lectures, discussions, and lab activities students are guided through the development of a research proposal and analysis of data.

**Requisites:** Current enrl in MS in occ ther prgm or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**OCC THER 674 – SCIENTIFIC INQUIRY IN OT IV: SCIENTIFIC WRITING FOR PUBLICATION**

2 credits.

Students complete a research project proposed in the previous course. Emphasis is on interpretation and dissemination of findings and contributing to the evidence for practice via development of a final paper and a poster presentation.

**Requisites:** Current enrollment in MS in occupational therapy program or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**OCC THER 811 – APPLIED LEADERSHIP AND MANAGEMENT IN OT**

3 credits.

Overview of the historical, theoretical and current practices of leadership, management and advocacy in health care, education and social service settings. Course will include a reflective analysis of the student's own leadership and management style. Students will apply key principles of effective networking, collaboration and interdisciplinary practice to further develop their own leadership competencies.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**OCC THER 812 – CURRENT TRENDS SHAPING OCCUPATIONAL THERAPY PRACTICE**

3 credits.

Occupational therapy's role in the history and continuing evolution of health care, education, and social welfare. Discussion of the theoretical, evidence, and policy trends influencing occupational therapy practice across settings. The course will emphasize development of leadership skills for shaping, advocating and guiding occupational therapy through a continually evolving practice landscape.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017



**OCC THER 813 – ADVANCED PRACTICE IN INTERPROFESSIONAL CONTEXTS**

3 credits.

Differentiate and define the role of occupational therapy, other professions, and the client in inter-professional practice (IP). Describe models of IP collaborative practice, evaluate evidence supporting effective IP interventions, generate and implement strategies for an IP team to improve quality of services.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**OCC THER 865 – ASSISTIVE TECHNOLOGY IN PRACTICE**

1 credit.

Examines the use of assistive technologies in practice including principles of assessment and design, a survey of devices and their appropriate application, common problems or barriers to effective use, and policy and funding issues.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**OCC THER 871 – APPLICATION OF OCCUPATIONAL THERAPY EVIDENCE IN THE PRACTICE ENVIRONMENT**

2 credits.

Multiple sources of evidence in the professional literature will be examined and applied to a specific intervention or topic that is relevant to students' professional development goals and/or capstone project. Appropriate methodologies, analytic tools and procedural reasoning will be leveraged in support of recommendations regarding the application of the intervention or approach in the practice environment.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**OCC THER 881 – DOCTOR OF OCCUPATIONAL THERAPY: CAPSTONE PROJECT I**

1 credit.

Repeatable graduate course designed to facilitate the development and initial implementation of the OTD Capstone Project.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, for 4 number of completions**Last Taught:** Fall 2017**OCC THER 890 – INTER-PROFESSIONAL DEVELOPMENT FOR LEADERSHIP**

1-3 credits.

Course content designed specific to student's curriculum plan to enhance knowledge of occupational therapy in global arenas, across service delivery systems and in inter-professional contexts.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, for 3 number of completions**Last Taught:** Fall 2017**ONCOLOGY (ONCOLOGY)****ONCOLOGY 401 – INTRODUCTION TO EXPERIMENTAL ONCOLOGY**

2 credits.

Biological processes associated with and characteristic of neoplasia.

**Requisites:** Biol org chem or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ONCOLOGY/MICROBIO 545 – TOPICS IN BIOTECHNOLOGY**

1 credit.

Seminars on current topics in agricultural, medical, and industrial biotechnology such as: microbiological production of food, drink, biopharmaceuticals; production methods, genetic engineering (vectors, recombination cloning), continuous fermentation; bioconversion processes and production of chemicals from biomass; plant biotechnology; transgenic animals.

**Requisites:** BIOCHEM 501 and GENETICS 466 or equiv**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ONCOLOGY/M&ENVTOX/MEDICINE/PATH/PHM SCI/PHM COL-M/POP HLTH 625 – TOXICOLOGY I**

3 credits.

Basic principles of toxicology and biochemical mechanisms of toxicity in mammalian species and man. Correlation between morphological and functional changes caused by toxicants in different organs of the body.

**Requisites:** BIOCHEM 501, PHYSIOL 335, PATH 404 and PHM SCI 401**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ONCOLOGY/MICROBIO/PL PATH 640 – GENERAL VIROLOGY-MULTIPLICATION OF VIRUSES**

3 credits.

Bacterial and animal viruses, their structure, multiplication, and genetics.

**Requisites:** Intro crses in bact, biochem genetics**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ONCOLOGY 675 – ADVANCED OR SPECIAL TOPICS IN CANCER RESEARCH**

1-3 credits.

**Requisites:** Cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**ONCOLOGY 699 – SPECIAL RESEARCH PROBLEMS**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ONCOLOGY 703 – CARCINOGENESIS AND TUMOR CELL BIOLOGY**

3 credits.

Viral, chemical, and physical factors involved in tumor formation in humans and experimental animals; biology and biochemistry of neoplasia, both in vivo and in vitro.

**Requisites:** ONCOLOGY 401 or equiv, organic chem, biochem, cell biology, virology, or cons inst.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ONCOLOGY 715 – ETHICS IN SCIENCE**

1 credit.

A review and discussion of the fundamentals of ethical issues in science.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**ONCOLOGY 725 – READINGS IN CANCER BIOLOGY**

2 credits.

A review and discussion of the current literature on topics related to cancer biology. The emphasis is on the development of skills in data analysis, critical interpretation, and clear writing.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ONCOLOGY 735 – CURRENT PROBLEMS IN CANCER BIOLOGY**

2 credits.

The emphasis of this course is on the development of skills in data analysis and interpretation, grant proposal writing, and oral presentation to help prepare students for their Preliminary Exam.

**Requisites:** Declared in Cancer Biology program with second year standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ONCOLOGY 901 – SEMINAR**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ONCOLOGY 990 – RESEARCH**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## OPERATIONS AND TECHNOLOGY MANAGEMENT (OTM)

**OTM 300 – OPERATIONS MANAGEMENT**

3 credits.

Managing operations is about people, information, equipment, and materials and how these are combined to produce and/or deliver goods and services to customers. Emphasis is on how systems and processes can be designed, managed, and improved to achieve operations excellence and competitive advantage.

**Requisites:** Sophomore standing**Repeatable for Credit:** No**Last Taught:** Fall 2017

**OTM 351 – PRINCIPLES AND TECHNIQUES OF QUALITY MANAGEMENT**  
3 credits.

This course introduces students to the terminology, concepts, principles, and techniques for managing and improving quality.

**Requisites:** Gen Bus 303 or equiv, MHR 300 or equiv

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**OTM 365 – CONTEMPORARY TOPICS**

1-3 credits.

A course for the exploration of subject areas possibly to be introduced into the business curriculum.

**Requisites:** Prerequisite varies by topic

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**OTM 370 – SUSTAINABLE APPROACHES TO SYSTEM IMPROVEMENT**

3 credits.

Organizations employ a variety of improvement approaches to develop sustainable practices. This course examines innovative system-improvement concepts and methodology that directly address sustainability concerns such as natural capital, emission buildup, and base of the pyramid, while simultaneously strengthening mission-central concerns such as cost, quality, customer, market, revenue, profit, brand, reputation sourcing, and quality of work life.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**OTM 399 – READING AND RESEARCH-OPERATIONS AND INFORMATION MANAGEMENT**

1-6 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**OTM 410 – OPERATIONS RESEARCH I**

3 credits.

Linear and nonlinear programming with emphasis on applications; the transportation problem, parametric programming, sensitivity analysis, dynamic programming.

**Requisites:** MATH 211 or equivalent

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**OTM 411 – OPERATIONS RESEARCH II**

3 credits.

Stochastic processes; Markov processes, queuing theory; applications to production and inventory problems.

**Requisites:** Gen Bus 303 or equivalent, MATH 211 or equivalent

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**OTM/MARKETNG 421 – FUNDAMENTALS OF SUPPLY CHAIN MANAGEMENT**

3 credits.

Supply chain management is a cross-functional discipline concerned with the movement of products, services, and information among all links in the value chain. The management of supply chain resources is a way to reduce costs and achieve competitive advantage.

**Requisites:** So, Jr, or Sr st; Marketing 300

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**OTM/MARKETNG 422 – LOGISTICS MANAGEMENT**

3 credits.

Provides a management perspective on the fundamental activities, concepts, and current practices in logistics. Transportation management, order fulfillment, warehousing, global logistics, key performance indicators, outsourcing, and introduction to radio frequency identification and barcoding. Use of case studies and industry speakers.

**Requisites:** OTM 300 or equiv, Marketing 300 or equiv

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**OTM 442 – DATABASE MANAGEMENT AND APPLICATIONS**

3 credits.

Introduces students to the concepts of database analysis, design, implementation, and management. Main topics include conceptual and relational database modeling and design; relational database processing and Structured Query Language (SQL); Microsoft Access. A real-world team project that uses the concepts and technologies taught in the course is an important element.

**Requisites:** Sophomore standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**OTM 444 – ECONOMICS OF TRANSPORTATION**

3 credits.

Influence of transport costs on economic development, industrial location and market penetration; economic characteristics of carriers; pricing policies and practices in transport; interrelationship of public policy issues and decisions by suppliers and users of transportation.

**Requisites:** ECON 101

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**OTM 451 – SERVICE OPERATIONS MANAGEMENT**

3 credits.

Application of operations management principles to the analysis of service-delivery systems in profit and nonprofit organizations. Topics include designing service-delivery systems, location and layout, operations planning and control, yield management, technology and information systems, and service quality management.

**Requisites:** OTM 300

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**OTM/I SY E 578 – FACILITIES LOCATION MODELS**

3 credits.

The theory and methods of facility location. Plant and warehouse siting, plant layout problems and location of service facilities such as hospitals and fire stations. Cases of actual applications.

**Requisites:** OIM 410 or Ind Engr 323, or equivalent**Repeatable for Credit:** No**Last Taught:** Spring 2011**OTM/I SY E 620 – SIMULATION MODELING AND ANALYSIS**

3 credits.

Introduction to simulation modeling and analysis techniques with application to production, logistics, service, and other systems. Emphasis on model building, application of basic statistical data analysis, and the use of simulation for design, evaluation, and improvement of such systems. Introduction to available software. Case studies.

**Requisites:** COMP SCI 302 and STAT 312**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**OTM/I SY E/MATH/STAT 632 – INTRODUCTION TO STOCHASTIC PROCESSES**

3 credits.

Topics include discrete-time Markov chains, Poisson point processes, continuous-time Markov chains, and renewal processes. Applications to queueing, branching, and other models in science, engineering and business.

**Requisites:** MATH 531 or (MATH/STAT/MATH 431, MATH/STAT/MATH 309 or STAT 311) and (MATH 320, 340, 341, 375, or 421) or graduate standing**Course Designation:** Breadth - Natural Science Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**OTM/I SY E/MATH 633 – QUEUING THEORY AND STOCHASTIC MODELING**

3 credits.

Reliability theory; coherent systems and reliability bounds. Markovian queues and Jackson networks. Steady-state behavior of general service time queues. Priority queues. Approximation methods and algorithms for complex queues. Simulation. Dynamic programming; applications to inventory and queueing.

**Requisites:** Math, Ind Engr 632 or cons inst**Course Designation:** Breadth - Natural Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2010**OTM 640 – BUSINESS LOGISTICS ANALYSIS**

3 credits.

Emphasis on the business logistics process from a managerial perspective; analysis of logistics systems to develop implementation strategies for effective flow of material and information throughout the supply chain.

**Requisites:** ECON 101**Repeatable for Credit:** No**Last Taught:** Fall 2014**OTM 654 – PRODUCTION PLANNING AND CONTROL**

3 credits.

The role of materials and capacity planning and control in business operations. Manufacturing Resource Planning Systems: aggregate planning, material requirements planning, capacity planning, operations scheduling. Procedures for cellular manufacturing systems. Costing issues in modern planning and control systems.

**Requisites:** OTM 300**Repeatable for Credit:** No**Last Taught:** Spring 2017**OTM/I SY E/INFO SYS 671 – E-BUSINESS: TECHNOLOGIES, STRATEGIES AND APPLICATIONS**

3 credits.

Overview of core concepts of e-commerce and e-business technologies, strategies and applications. Covers business-to-consumer, business-to-business and intra-business models by using real-world examples and cases from various industries..

**Requisites:** Senior or Graduate standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**OTM 700 – OPERATIONS MANAGEMENT**

3 credits.

Management of the operations function in manufacturing and service organizations. Emphasizes the coordination of resources to improve cost, quality, and customer service. Topics include materials, capacity, and project management, operations strategy, forecasting, and process design.

**Requisites:** Gen Bus 303 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017

**OTM 705 – DATA ANALYSIS AND DECISION MAKING**

3 credits.

Students will advance their analytical and decision making skills by developing practical spreadsheet models to evaluate business situations. Fundamental topics in probability, statistics, and constrained optimization will be introduced and used as modeling tools via active learning exercises.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2008**OTM 710 – OPERATIONS RESEARCH I**

3 credits.

Linear and nonlinear programming with emphasis on applications; the transportation problem, parametric programming, sensitivity analysis, dynamic programming.

**Requisites:** OIM 709 or MATH 222 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**OTM 711 – OPERATIONS RESEARCH II**

3 credits.

Stochastic processes; Markov processes; queuing theory; applications to production and inventory problems.

**Requisites:** Gen Bus 303 either OIM 709 or MATH 222 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2013**OTM/MARKETNG 722 – LOGISTICS MANAGEMENT**

3 credits.

This course provides a foundation in transportation, order fulfillment, warehousing, materials planning including MRP, demand planning, import/export fundamentals, SAP/ERP systems, supply chain metrics, and leading supply chain technologies such as RFID.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**OTM 732 – ECONOMICS FOR MANAGERS**

3 credits.

This course develops and applies economic principles to examine the affect of firm, industry, domestic and global market conditions on both day-to-day managerial decision making and long-term strategic planning.

**Requisites:** 1st yr MBA stdt**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**OTM 744 – ECONOMICS OF TRANSPORTATION**

3 credits.

Influence of transport costs on economic development, industrial location and market penetration; economic characteristics of carriers; pricing policies and practices in transport; interrelationship of public policy issues and decisions by suppliers and users of transportation.

**Requisites:** ECON 101**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**OTM 751 – SERVICE OPERATIONS MANAGEMENT**

3 credits.

Application of operations management principles to the analysis of service-delivery systems in profit and nonprofit organizations. Topics include designing service-delivery systems, location and layout, operations planning and control, yield management, technology and information systems, and service quality management.

**Requisites:** OIM 750 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**OTM 753 – HEALTHCARE OPERATIONS MANAGEMENT**

3 credits.

Healthcare delivery systems around the world struggle with three fundamental issues: patient access to care, quality and safety in the care process (incl. patient and staff satisfaction), and cost of care. In this course, we look at these issues and selected analysis and improvement approaches that the discipline of Operations Management can offer. In doing that, different types of both clinical and non-clinical processes in hospital settings are illustrated.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**OTM/INTL BUS 755 – INTERNATIONAL OPERATIONS: PROBLEMS AND ADMINISTRATION**

3 credits.

Organizations and strategies of international and multinational firms. Initiating international operations, joint venture problems, relationships with state enterprises, licensing methods, defenses against adverse government policies (including confiscation), and international business policies and tactics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2009



**OTM 758 – MANAGING TECHNOLOGICAL AND ORGANIZATIONAL CHANGE**

3 credits.

Issues surrounding strategic decisions to adopt new technologies and modern improvement philosophies, the impact these will have on the organization and its members, obstacles preventing successful implementations, and the effective management of change processes. Change triggered by process technologies, and models of change management, form the core of the course. Students may not take both OIM 758 IE 658 for credit.

**Requisites:** OIM 700 or consent of instructor.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**OTM 765 – CONTEMPORARY TOPICS**

1-4 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**OTM 770 – SUSTAINABLE APPROACHES TO SYSTEM IMPROVEMENT**

4 credits.

Innovative system-improvement concepts and approaches that sustainably strengthen mission-central concerns such as quality, cost, customers, markets, revenue, profit, brand, reputation, sourcing, quality of work life, natural capital, buildup of concentrations and base of the pyramid.

**Requisites:** One semester course in statistics**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**OTM/E P D/GEN BUS 784 – PROJECT MANAGEMENT ESSENTIALS**

1 credit.

This project management course teaches techniques that will help you plan, execute, and deliver projects with desired scope on time and on budget. Learn to document clear project objectives and goals, accurately estimate project time and costs, schedule and allocate time-critical resources, and establish feedback systems for optimal project control. This course will not apply toward fulfilling the MBA degree requirements.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**OTM 799 – READING AND RESEARCH-OPERATIONS AND INFORMATION MANAGEMENT**

1-6 credits.

Individual work suited to the needs of graduate students may be arranged both during regular sessions and the intersession periods.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**OTM 860 – SUSTAINABLE DESIGN OF INNOVATIVE PRODUCTS, SERVICES AND SYSTEMS**

3 credits.

Principles, concepts and methodology for innovative, sustainable approaches to design of products, services and systems.

**Requisites:** None**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**OTM 861 – STRATEGIC SYSTEMS AND SUSTAINABILITY**

3 credits.

Innovative concepts and methodology that embed sustainability into strategic organizational systems.

**Requisites:** OIM 770 or equiv or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**OTM 875 – SEMINAR IN OPERATIONS AND TECHNOLOGY MANAGEMENT**

3 credits.

Current topics in operations and technology management.

**Requisites:** OIM 700 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2010**OTM 990 – OPERATIONS AND INFORMATION MANAGEMENT-INDEPENDENT RESEARCH PH.D. THESIS**

1-12 credits.

Individual work to complete dissertation requirement of Ph.D. program.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**OTM 999 – READING AND RESEARCH-OPERATIONS AND INFORMATION MANAGEMENT PHD**

1-6 credits.

Individual work suited to the needs of Ph.D. students may be arranged both during regular sessions and during the intersession periods.

**Requisites:** PhD st cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**OPHTHALMOLOGY AND VISUAL SCIENCES (OPHTHALM)****OPHTHALM 699 – DIRECTED STUDY**

1-12 credits.

Directed study projects as arranged with faculty member.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**OPHTHALM 910 – INDEPENDENT READING AND RESEARCH FOR FOURTH YEAR MEDICAL STUDENTS**

1-8 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**OPHTHALM 919 – INDIVIDUALIZED FOURTH YEAR CLINICAL CLERKSHIP**

1-12 credits.

Individually arranged fourth year clinical clerkships (students must have Fourth Year Committee approval to count for fourth year credit).

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PATHO-BIOLOGICAL SCIENCES (PATH-BIO)****PATH-BIO 150 – CONTEMPORARY TOPICS AND CAREERS IN THE VETERINARY SCIENCES**

1 credit.

Designed to expose students to topics of importance to the animal health field as well as introduce them to the academic and professional options they will face as undergraduates.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**PATH-BIO/PATH 210 – HIV: SEX, SOCIETY AND SCIENCE**

3 credits.

HIV kills three million people per year, more than any other infectious disease. We will learn about the transmission, immunology, virology, vaccinology and societal impact of this virus. Six of the world's leading HIV scientists will give guest lectures. Open to all Undergrads

**Requisites:** HS biol crse.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PATH-BIO 299 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Freshmen or Sophomore or Junior standing written consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**PATH-BIO/ENTOM/M M & I/ZOOLOGY 350 – PARASITOLOGY**

3 credits.

The biology of water-borne, food-borne, soil-borne and vector-borne parasites of animals including humans. Parasites are explored in the context of transmission, associated disease, diagnosis and treatment options, and environmental, cultural and socioeconomic drivers of disease epidemiology.

**Requisites:** BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102, or BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 152 or ZOOLOGY 153, or BIOCORE 381**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**PATH-BIO/M M & I/ZOOLOGY 351 – PARASITOLOGY LABORATORY**

2 credits.

Optional laboratory component of Zoology/Med Micro/AHABS 350. Emphasis on experiments involving live animal parasites, including: trematodes, tapeworms, gapeworms, hookworm, ascarids, trichina, filaria, trypanosomes, coccidia, and malaria.

**Requisites:** cons reg in Zoo/MMI/AHABS 350**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2011**PATH-BIO/HORT 500 – MOLECULAR BIOLOGY TECHNIQUES**

3 credits.

The objective of the course is to familiarize students with recombinant DNA technology. This will be accomplished through lectures as well as hands on exposure to methodologies used in molecular biology laboratories.

**Requisites:** BIOCHEM 501 or 621 or GENETICS 466 or Bact 303, 304 or cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**PATH-BIO 510 – VETERINARY IMMUNOLOGY**

3 credits.

Current concepts in basic and clinical immunology with special emphasis on domesticated species and aspects of immunology important to students of veterinary medicine.

**Requisites:** Vet Med st, basic crse in microbiology, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PATH-BIO 512 – INTRODUCTION TO VETERINARY EPIDEMIOLOGY**

2 credits.

This course introduces basic concepts and approaches to population problems in veterinary medicine. Methods appropriate to investigation of disease outbreaks, surveillance of animal disease and production and the design of epidemiological studies of the determinants of disease are presented.

**Requisites:** Vet Med st or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PATH-BIO 513 – VETERINARY VIROLOGY**

2 credits.

Basic and clinical concepts of the viruses and diseases they cause in domesticated species.

**Requisites:** Vet Med st, basic crse in microbiology, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PATH-BIO 514 – VETERINARY PARASITOLOGY**

3 credits.

Basic veterinary parasitology with emphasis on biology, diagnosis, pathophysiology, treatment and management of parasitic infections of veterinary importance.

**Requisites:** Vet Med st or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**PATH-BIO 515 – REGULATORY VETERINARY MEDICINE AND PUBLIC HEALTH**

2 credits.

Introduction to the preventive aspects of veterinary medicine as they relate to zoonoses, environmental hygiene and safety of foods of animal origins.

**Requisites:** Vet Med st or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2017**PATH-BIO 517 – VETERINARY BACTERIOLOGY AND MYCOLOGY**

4 credits.

Emphasis of the course is on the pathogenesis of bacterial and fungal diseases of animals. The laboratories will familiarize students with the methods used to identify representative bacterial and fungal pathogens.

**Requisites:** Enrollment in the vet med pro curric or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PATH-BIO 525 – ACTIVE, INTEGRATED LEARNING I**

1 credit.

Active Learning experience highlighting problem solving and critical thinking that horizontally and vertically integrates material from other veterinary medicine courses by using exercises constructed in the context of clinical cases or scenarios.

**Requisites:** Yr 1 Vet Med crses**Repeatable for Credit:** No**Last Taught:** Fall 2017

**PATH-BIO 526 – ACTIVE, INTEGRATED LEARNING II**

1 credit.

Active Learning experience highlighting problem solving and critical thinking that horizontally and vertically integrates material from other veterinary medicine courses by using exercises constructed in the context of clinical cases or scenarios.

**Requisites:** Yr 1 Vet Med crses

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PATH-BIO/M M & I/MICROBIO 528 – IMMUNOLOGY**

3 credits.

Development and functions of immune response in animals; a comprehensive study of experimental humoral and cellular immunity.

**Requisites:** Two sem chem and one sem zoology or gen biology

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PATH-BIO/M M & I 529 – IMMUNOLOGY LABORATORY**

2 credits.

Selected techniques illustrating concepts of cellular and humoral immunity as a supplement to Immunology 528. Jr or Sr st; cons inst

**Requisites:** Two sem of chem and one sem of zoology or gen biology.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**PATH-BIO 559 – VETERINARY GENERAL PATHOLOGY**

2 credits.

General mechanisms of disease at the cellular, tissue, organ, and organismal levels. Cell injury and cell death, neoplasia, inflammation, circulation, and genetics.

**Requisites:** Declared in Veterinary Medicine program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PATH-BIO 560 – VETERINARY SYSTEMIC PATHOLOGY I**

2 credits.

Morphological manifestations of disease in animals. Diseases and disease processes will be discussed by organ system, stressing important diseases in domestic animals. Students should take both Veterinary Systemic Pathology I and II.

**Requisites:** Vet Med st Path-Bio 559, or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PATH-BIO 561 – VETERINARY SYSTEMIC PATHOLOGY II**

4 credits.

Morphological manifestations of disease in animals. Diseases and disease processes will be discussed by organ system, stressing important diseases in domestic animals. Students should take both Veterinary Systemic Pathology I and II.

**Requisites:** Vet Med st, Path-Bio 560, or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PATH-BIO 562 – VETERINARY CLINICAL PATHOLOGY**

4 credits.

Concepts and techniques of clinical pathology with emphasis on those procedures that are important in the diagnosis of animal diseases.

**Requisites:** Declared in Veterinary Medicine program

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PATH-BIO 660 – VETERINARY NECROPSY ROTATION**

1 credit.

The course is designed to provide experience with necropsy procedures in all animal species and in developing interpretive skills by participating in the School of Veterinary Medicine/Veterinary Medical Teaching Hospital diagnostic anatomic pathology service under the guidance of the faculty for half days during the two week rotation.

**Requisites:** Declared in Veterinary Medicine program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PATH-BIO 675 – SPECIAL TOPICS**

1-5 credits.

Topics vary.

**Requisites:** Cons inst

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PATH-BIO 681 – SENIOR HONORS THESIS**

2-4 credits.

**Requisites:** Honors program candidacy

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PATH-BIO 699 – DIRECTED STUDY**

1-5 credits.

Projects in the laboratory and/or through library work in specific subject area under the direct guidance of faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PATH-BIO/M M & I 720 – ADVANCED IMMUNOLOGY: CRITICAL THINKING**

3 credits.

Advanced course focusing on current questions in immunological research. Course explores immunology topics including genetic, cellular, and molecular features of immune system fundamental to regulation of immune responses. Course format: discussion of research articles and exposure to research seminars.

**Requisites:** MMI/AHABS/Bact 528 or equiv

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**PATH-BIO 740 – PATHOBIOLOGICAL SCIENCES RESEARCH ROTATION**  
2-16 credits.

Conduct of a mini-research project in which hypothesis development, experimental design, experimentation, data analysis and written and oral presentation of findings are key elements.

**Requisites:** Declared in Veterinary Medicine program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2005

**PATH-BIO/M M & I 750 – HOST-PARASITE RELATIONSHIPS IN VERTEBRATE VIRAL DISEASE**  
3 credits.

Lecture. Detailed study of the pathogenesis of vertebrate viral disease, stressing viral invasion, dissemination, mechanisms of disease production and resistance, and transmission.

**Requisites:** Oncol/MICROBIO/ONCOLOGY/PL PATH 640 or Path-Bio 513; and Microbio/MMI/Path-Bio 528; or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**PATH-BIO/M M & I 773 – EUKARYOTIC MICROBIAL PATHOGENESIS**  
3 credits.

An advanced course focusing on the molecular, cellular and biochemical mechanisms found in fungal and protozoan pathogens of humans. A combination of lectures and student presentations will be employed. MMI 740 PATH 750 recommended

**Requisites:** Cons inst.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**PATH-BIO 775 – EXTERNSHIP**  
1-24 credits.

This course is an elective for fourth year veterinary medical students which offers faculty coordinated experience in the veterinary medical profession outside the School.

**Requisites:** Vet Med st or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PATH-BIO/M M & I/MICROBIO 790 – IMMUNOLOGY OF INFECTIOUS DISEASE**  
3 credits.

Immunobiology and immunogenetics of resistance to infectious disease agents of man and animals; immunoregulatory mechanisms associated with evasion of host immunity.

**Requisites:** MMI 720 or equiv, MMI 740 or equiv, cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**PATH-BIO 799 – PRACTICUM IN VETERINARY SCIENCE TEACHING**  
1-3 credits.

Instructional orientation to teaching at the higher education level in the agricultural and life sciences, direct teaching experience under faculty supervision, experience in testing and evaluation of students, and the analysis of teaching performance.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PATH-BIO 875 – SPECIAL TOPICS**  
1-6 credits.

Will vary depending on course focus.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2012

**PATH-BIO 920 – THESIS RESEARCH SEMINAR**  
1 credit.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**PATH-BIO 930 – ADVANCED SEMINAR**  
1 credit.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PATH-BIO 990 – RESEARCH**  
1-12 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## PATHOLOGY AND LABORATORY MEDICINE (PATH)

### PATH/PATH-BIO 210 – HIV: SEX, SOCIETY AND SCIENCE

3 credits.

HIV kills three million people per year, more than any other infectious disease. We will learn about the transmission, immunology, virology, vaccinology and societal impact of this virus. Six of the world's leading HIV scientists will give guest lectures. Open to all Undergrads

**Requisites:** HS biol crse.

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### PATH 299 – INDEPENDENT STUDY

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2005

### PATH 399 – INDEPENDENT STUDY

1-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### PATH 404 – PATHOPHYSIOLOGIC PRINCIPLES OF HUMAN DISEASES

3 credits.

Primarily for students of pharmacy and nursing to provide a basic understanding of the causes, pathophysiology, pathology and clinical manifestations of disease states. Required course for pharmacy and nursing programs.

**Requisites:** PHYSIOL 335

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### PATH/M&ENVTOX/MEDICINE/ONCOLOGY/PHM SCI/PHM COL-M/POP HLTH 625 – TOXICOLOGY I

3 credits.

Basic principles of toxicology and biochemical mechanisms of toxicity in mammalian species and man. Correlation between morphological and functional changes caused by toxicants in different organs of the body.

**Requisites:** BIOCHEM 501, PHYSIOL 335, PATH 404 and PHM SCI 401

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### PATH/M&ENVTOX/MEDICINE/PHM SCI/PHM COL-M/POP HLTH 626 – TOXICOLOGY II

3 credits.

Survey of the basic methods and fundamental biochemical mechanisms of toxicity. Toxicity in mammalian organ systems, techniques for evaluating toxicity, as well as mechanisms of species specificity, and environmental interactions (with toxicant examples) are presented.

**Requisites:** MENVTOX/MEDICINE/ONCOLOGY/PATH/PHM COL-M/PHM SCI/POP HLTH/M&ENVTOX/MEDICINE/ONCOLOGY/PATH/PHM SCI/PHM COL-M 625

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### PATH 651 – QUALITY ASSURANCE BASICS

1 credit.

Describes the regulatory requirements that all healthcare laboratories must follow to assure quality throughout the testing process. Covers the extensive CLIA'88 regulations and professional accreditation (JCAHO, CAP and COLA) standards.

**Requisites:** PATH 657 Sr st in clin lab sci, or bachelor's degree in clin lab sci, or ASCP or NCA cert in clin lab sci, or admission to the Graduate Certificate in Laboratory Quality Management

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

### PATH 652 – QUALITY ASSURANCE PROJECTS

2 credits.

Provides a laboratory application for ensuring quality results through quality assurance practices in healthcare laboratories. This includes evaluating current quality assurance policies and practices and developing new policies to meet the many mandated CLIA'88 regulatory requirements and professional accreditation standards.

**Requisites:** Sr st in clin lab sci, or bachelor's degree in clin lab sci, or ASCP or NCA cert in clin lab sci, or admission to the Graduate Certificate in Laboratory Quality Management

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**PATH 653 – METHOD VALIDATION BASICS**

1 credit.

Describes the fundamental experimental and statistical techniques used to validate the performance of analytical methods, including experiments for working range, replication, interference, recovery, and comparison of methods and associated data calculations, such as t-test and linear regression statistics.

**Requisites:** Sr st in clin lab sci, or bachelor's degree in clin lab sci, or ASCP or NCA cert in clin lab sci, or admission to the Graduate Certificate in Laboratory Quality Management

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**PATH 654 – METHOD VALIDATION PROJECTS**

2 credits.

Provides a laboratory application of the principles and techniques of method validation studies, including experiments for working range, replication, interference, recovery, and comparison of methods and associated data calculations, such as t-test and linear regression statistics.

**Requisites:** PATH 653 Sr st in clin lab sci, or bachelor's degree in clin lab sci, or ASCP or NCA cert in clin lab sci, or admission to the Graduate Certificate in Laboratory Quality Management

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**PATH 655 – QUALITY CONTROL BASICS**

1 credit.

Describes the fundamental principles, terminology, and practices of statistical quality control as applied with analytical testing processes in healthcare laboratories. Covers the plotting of Levey-Jennings control chart and interpretation of control data using the Westgard multirule procedure.

**Requisites:** Sr st in clin lab sci, or bachelor's degree in clin lab sci, or ASCP or NCA cert in clin lab sci, or admission to the Graduate Certificate in Laboratory Quality Management

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**PATH 656 – QUALITY CONTROL PROJECTS**

2 credits.

Provides a laboratory application of the principles and techniques of statistical quality control in a real-world setting. Involves auditing QC data in an analytical laboratory and critical review of laboratory QC applications.

**Requisites:** PATH 655 Sr st in clin lab sci, or bachelor's degree in clin lab sci, or ASCP or NCA cert in clin lab sci, or admission to the Graduate Certificate in Laboratory Quality Management

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**PATH 657 – QUALITY PLANNING BASICS**

1 credit.

Describes the principles and approach for setting method performance specifications and selecting statistical QC procedures on the basis of the quality required for a laboratory test. Introduces the chart of operating specifications as a practical quality-planning tool.

**Requisites:** Sr st in clin lab sci, or bachelor's degree in clin lab sci, or ASCP or NCA cert in clin lab sci, or admission to the Graduate Certificate in Laboratory Quality Management

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**PATH 658 – QUALITY PLANNING PROJECTS**

2 credits.

Provides a laboratory application of the principles, theory, and approach for establishing method performance specifications and selecting statistical QC procedures for laboratory methods. Involves specific tests and methods in an analytical service laboratory.

**Requisites:** PATH 657 Sr st in clin lab sci, or bachelor's degree in clin lab sci, or ASCP or NCA cert in clin lab sci, or admission to the Graduate Certificate in Laboratory Quality Management

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**PATH 691 – SENIOR THESIS**

3 credits.

Independent research in the areas of structural virology, molecular virology, viral pathogenesis, or immunity to virus infection. A seminar presentation of research data and a written thesis are required in the final semester.

**Requisites:** Junior or Senior standing consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**PATH 699 – INDEPENDENT STUDY**

1-4 credits.

**Requisites:** Jr st cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PATH 703 – GENERAL PATHOLOGY**

2 credits.

Lecture and lab. General mechanisms in disease in tissues. Cellular injury, neoplasia, genetic alterations, immunopathology, circulation, and infectious disease pathology.

**Requisites:** 2nd yr Med School st or written cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2008



**PATH 704 – PATHOLOGY OF ORGAN SYSTEMS**

2 credits.

Continuation of Pathology 703. Organ based pathology is concerned with the mechanisms underlying disease processes specific to a given organ system, as manifested by morphologic (gross, cellular, and ultrastructural), physiologic, and biochemical changes.

**Requisites:** 2nd yr Med School st or written cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2009**PATH 709 – CONTEMPORARY TOPICS IN CELL STRUCTURE AND FUNCTION**

2 credits.

In-depth introduction to current topics in cell biology. Problems and issues confronting cell biologists are explored through reading and discussion of research papers. Topic varies each year.

**Requisites:** Previous course in cell biology**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2013**PATH 750 – CELLULAR AND MOLECULAR BIOLOGY/PATHOLOGY**

2-3 credits.

The emphasis is on our current understanding of molecular and cellular mechanisms. Wherever possible, human diseases are used to illustrate the outcome at the organismal level of defects in these mechanisms. Lectures will draw from the current research literature and cover topics such as cell and tissue organization, intracellular sorting, cell migration and growth. Students in Cellular and Molecular Pathology graduate program must enroll for lectures, 2 credits and discussion section, 1 credit. All other students should enroll for lecture only, 2 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**PATH 751 – CELL AND MOLECULAR BIOLOGY OF AGING**

3 credits.

Cellular and molecular pathophysiology of human disease typically afflicting the aged, such as Alzheimer's, osteoporosis, Type II diabetes and arthritis, experimental systems to study aging.

**Requisites:** BIOCHEM 501 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PATH 799 – INDEPENDENT READING AND RESEARCH**

9 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2002**PATH 802 – HISTOPATHOLOGY FOR TRANSLATIONAL SCIENTISTS**

3 credits.

This course is unique among the graduate curricula, introducing students to the pathogenesis of disease via integration of actual autopsy patient cases. Emphasis is placed on understanding the basic mechanisms of disease at the level of cell, organ, and body, as well as the morphologic expression patterns of selected common specific disease processes. In addition to attending twice-weekly lectures, students will participate in weekly autopsy gross organ conferences as well as microscopic review sessions. In this way, the concepts covered in lectures will be applied and reinforced in the interactive autopsy sessions. Students will also observe at least one full autopsy, gaining a three-dimensional understanding of structure and disease. The grade for this course is derived from a final multiple-choice exam and a short essay regarding an autopsy case. At the conclusion of this course, students should: gain an appreciation of how disease processes directly impact patients; be able to distinguish the morphologic patterns of normal versus pathologic tissues; be familiar with the pathogenesis of selected common disease processes; and recognize how basic laboratory research may be applied to specific disease processes.

**Requisites:** Cellular and Molecular Pathology Graduate Student**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PATH 803 – PATHOGENESIS OF MAJOR HUMAN DISEASES**

3 credits.

This course will focus on disease pathogenesis and discussion of the leading disease research model. Throughout the course, we will combine expert clinicians, basic scientists, and literature review on specific major diseases.

**Requisites:** Upper-level general cell biol crse or PATH 703**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PATH 807 – IMMUNOPATHOLOGY: THE IMMUNE SYSTEM IN HEALTH AND DISEASE**

2 credits.

Gain fundamental knowledge of immunopathology and molecular immunology medicine, and have an in-depth research experience that combines pathobiological and translational immunology research.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015

**PATH 809 – MOLECULAR MECHANISMS OF DISEASE**

2 credits.

Focuses on molecular mechanisms of diseases. Course will focus on four modules: Neuroscience, cancer biology, growth factor/matrix biology, and immunology. Course will consist of a one hour lecture and a one hour group discussion.

**Requisites:** PATH 750 803

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PATH 900 – SEMINAR**

0 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PATH 901 – STUDENT SEMINAR / JOURNAL CLUB**

1 credit.

Review of current publications on relevant topics selected by department faculty and trainer.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PATH 920 – GENERAL PATHOLOGY CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PATH 925 – LABORATORY MEDICINE: CLINICAL TOXICOLOGY ELECTIVE-CSC**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2012

**PATH 926 – PATHOLOGY: CLINICAL MICROBIOLOGY-MARSHFIELD**

2-12 credits.

Clinical elective for fourth year medical students.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PATH 951 – THE EXTRACELLULAR MATRIX, CELL STRUCTURE AND FUNCTION**

2 credits.

Critical analysis in discussion format of topics in cell adhesion and cell matrix interactions that regulate cell signaling mechanisms, cell proliferation and cell invasion. Topics are introduced by lecture followed by assignment of papers from primary literature for discussion.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2007

**PATH 990 – RESEARCH**

1-8 credits.

For Grad and medical students desiring advanced pathology; work done under the direction of a senior staff member.

**Requisites:** Cons inst or Sr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## PEDIATRICS (PEDIAT)

**PEDIAT 646 – CANCER GENETICS RISK ASSESSMENT AND COUNSELING**

2 credits.

The purpose of this course is to equip students with the background knowledge needed to provide cancer genetics counseling services. The information gained from the course will be put into practice during the second year cancer rotation, collectively preparing students for clinical practice. Students are provided with a background in cancer genetics from a medical, biological, and clinical perspective. The course includes: general principles and topics in oncology; familial cancers and cancer syndromes; and management, counseling, social, ethical, and legal issues.

**Requisites:** Declared in Master of Genetic Counselor Studies program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PEDIAT 699 – INDEPENDENT STUDY**

9 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PEDIAT 713 – PRACTICUM IN GENETICS COUNSELING**

3 credits.

Introductory practicum in genetics counseling, designed to acquaint the student with the basic practice skills required, protocols used, and professional issues in genetics counseling. Clinical experiences in a variety of specialty clinics provide opportunities for initial development of interviewing, data collection, and counseling skills.

**Requisites:** Declared in Master of Genetic Counselor Studies program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PEDIAT 714 – PRACTICUM IN GENETICS COUNSELING**

3 credits.

Second semester of the practicum in genetics counseling. Builds upon the first semester course (713) and provides additional opportunities to develop and improve skills in interviewing, data collection, case management and counseling.

**Requisites:** PEDIAT 713

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PEDIAT/GENETICS/MD GENET/NURSING 731 – ADVANCED CLINICAL GENETICS CONCEPTS**

3 credits.

An advanced course covering clinical genetic concepts including phenotype, genetic mechanisms, approach to diagnosis (medical, clinical and genetic testing protocols), and natural history (including management approaches). While specific for Genetic Counselor Studies students other healthcare providers are allowed if they have sufficient genetic background knowledge.

**Requisites:** Declared in Master of Genetic Counselor Studies program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PEDIAT 737 – CONTEMPORARY PROFESSIONAL ISSUES IN GENETICS COUNSELING**

1 credit.

A series of selected basic issues and topics that are core curricular requirements specific to genetics counseling. Relevant, non-redundant topics will be scheduled over four consecutive semesters.

**Requisites:** Declared in Master of Genetic Counselor Studies program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PEDIAT 739 – LITERATURE SEARCH STRATEGIES AND ANALYSIS IN CLINICAL GENETICS**

2 credits.

Approaches to literature searching including computerized databases and information retrieval are covered. Methods are provided for the students to learn to read clinical literature critically, to recognize and assess biases and to understand the limits of currently available clinical genetics studies.

**Requisites:** Declared in Master of Genetic Counselor Studies program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PEDIAT 741 – INTERVIEWING AND COUNSELING FOR THE GENETIC COUNSELING I**

1 credit.

This is the basic counseling and interviewing practice course for the Genetic Counselor Training Program. Course activities include role play, standardized patients, research/opinion paper, readings, and discussion.

**Requisites:** Enrollment in the genetic counselor training program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PEDIAT 742 – CLINICAL EMBRYOLOGY AND PRENATAL GENETICS**

1 credit.

Review human development (normal and abnormal) and the influence of genetic disorders and teratogens, common indications for prenatal genetic counseling as well as available prenatal diagnosis and screening techniques. This course prepares the genetic counseling student for the prenatal clinical practicum.

**Requisites:** Declared in Master of Genetic Counselor Studies program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PEDIAT 744 – APPLICATIONS OF BIOCHEMICAL GENETICS FOR GENETIC COUNSELORS**

2 credits.

This course will introduce to the genetics counseling trainee applications of biochemical and molecular diagnostic tests in clinical practice and will review the major classes of inborn errors of metabolism.

**Requisites:** Declared in Master of Genetic Counselor Studies program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PEDIAT 745 – SEMINAR IN MEDICAL GENETIC COUNSELING RESEARCH**  
1 credit.

Course includes invited speakers and journal club participation. Speakers are campus investigators whose research is relevant to medical genetics and genetic counseling. Participation in the Clinical Genetics Center journal club is required.

**Requisites:** Student in the MS in Medical Genetics graduate program (Genetic Counselor Training Program) or consent of the instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**PEDIAT/NURSING/PHM PRAC/SOC WORK 746 – INTERDISCIPLINARY CARE OF CHILDREN WITH SPECIAL HEALTH CARE NEEDS**  
3 credits.

Interdisciplinary team care of children with special health care needs across the trajectory of illness presented within the context of family, culture, social determinants of health, community, and healthcare policy. Students introduced to interdisciplinary, collaborative, family-centered team care.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PEDIAT 812 – THIRD YEAR PEDIATRICS**  
1-6 credits.

**Requisites:** 3rd yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PEDIAT 813 – ADVANCED PRACTICUM IN GENETICS COUNSELING**  
4 credits.

A two semester program of clinical experiences which explores some of the pertinent professional issues in genetics counseling. The clinical experiences consist of four eight-week rotations which provide many opportunities for trainees to work toward perfecting skills in counseling, interviewing, data collection, case coordination and ongoing follow-along of genetics families.

**Requisites:** PEDIAT 714

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PEDIAT 814 – ADVANCED PRACTICUM IN GENETICS COUNSELING**  
4-5 credits.

The second of a two semester sequence of clinical experiences and didactics which provides opportunities for trainees to obtain professional competency in counseling, interviewing, and case coordination; to explore professional boundaries and limits; and learn strategies to develop a self-reflective practice.

**Requisites:** PEDIAT 813

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PEDIAT/MEDICINE/RADIOL 902 – MSTP PHYSICIAN SCIENTIST PRECEPTORSHIP IN CLINICAL & TRANSLATIONAL RESEARCH**  
1-6 credits.

Six-week clinical and translational research preceptorship for students of the Medical Scientist (MD/PhD) Training Program (MSTP).

**Requisites:** Limited to MSTP students in fourth year of medical school who have completed MEDICINE 901 and MEDICINE 903 or with instructor consent

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PEDIAT 910 – INDEPENDENT READING AND RESEARCH FOR FOURTH YEAR MEDICAL STUDENTS**  
1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PEDIAT 919 – INDIVIDUALIZED FOURTH YEAR CLINICAL CLERKSHIP**  
1-12 credits.

Individually arranged fourth year clinical clerkships. (Student must have Fourth Year Committee approval to count for fourth year credit.)

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PEDIAT 920 – PEDIATRIC INPATIENT ELECTIVE**

2-12 credits.

The Pediatric Inpatient Elective is an inpatient clinical experience where students will have primary responsibility for patients, performing similarly to an acting intern. This experience does not replace an acting internship, and is meant as a secondary opportunity for students to expand their clinical experiences and knowledge base. Students participating in this course will perform clinical responsibilities including: (1) Demonstrate a comprehensive approach to the care of acutely ill inpatients beginning with admission to the hospital and culminating with the successful transfer of the patient to next level of care. (2) Function with the level of supervision provided to a new intern. (3) Take ownership for assigned patients and thus be identified as the primary inpatient provider by team and family.

**Requisites:** 4th yr Med student

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**PEDIAT 930 – PEDIATRICS SUB-INTERNSHIP IN NEWBORN MEDICINE (MILWAUKEE)**

1-12 credits.

Clinical elective for fourth year medical students.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PEDIAT 935 – SURGICAL, NEUROLOGIC, & COMPLEX CARE OF THE NEONATE**

2-4 credits.

The elective at AFCH's level IV Neonatal ICU hopes to familiarize students with common topics addressed during the surgical or chronic care of neonates with complex medical issues.

**Requisites:** Fourth year medical student status

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**PEDIAT 938 – ACTING INPATIENT INTERNSHIP - PEDIATRICS**

4 credits.

As an inpatient pediatric acting intern (AI), you will have primary responsibility for pediatric inpatients, actionable in four domains: 1. Management: As an AI, you will develop actionable management and treatment plans based on your history, physical exam and targeted data. 2. Communications: AIs will communicate with colleagues, primary care providers and consultants. AIs will demonstrate thorough patient hand-offs and communicate concise transfer and/or discharge summaries that will be integral to patient care. 3. Learning: Patient care issues will be the central guide for learning, directing reading, consultation and research. AIs will formulate questions based upon clinical dilemmas, research the appropriate literature and databases to find the answers, and apply findings to the care of individual patients. 4. Organization: As the primary inpatient provider for patients, AIs will develop efficiency in accomplishing the day to day tasks necessary for the coordination and management of patient care.

**Requisites:** 4th year medical student standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PEDIAT 940 – ADOLESCENT MEDICINE CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PEDIAT 943 – PEDIATRIC CARDIOLOGY CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PEDIAT/PSYCHIAT 946 – CHILD PSYCHIATRY CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PEDIAT 950 – PEDIATRIC ENDOCRINOLOGY/DIABETES CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PEDIAT 953 – CLINICAL GENETICS CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PEDIAT 956 – HEMATOLOGY-ONCOLOGY CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PEDIAT 963 – PEDIATRIC NEPHROLOGY**

2-4 credits.

Provides an in-depth introduction to a variety of kidney diseases, allowing students to build upon their ability to diagnose and treat complex pediatric and adolescent patients. Students will rotate through the American Family Children's Hospital inpatient nephrology service, outpatient nephrology clinic, and the inpatient dialysis unit. Two and four week rotations are available.

**Requisites:** PEDIAT 812 or MED SC-M 810**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PEDIAT 965 – PEDIATRIC NEUROLOGY CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2013**PEDIAT 966 – PEDIATRIC SPORTS MEDICINE-CSC**

2-12 credits.

Clinical elective for fourth year medical students.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PEDIAT 967 – PEDIATRIC PULMONOLOGY CLERKSHIP (CSC)**

4-12 credits.

Third and fourth year clinical elective that focuses on diagnosis and management of a variety of lung diseases in children in outpatient and inpatient settings.

**Requisites:** 3rd or 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**PEDIAT 968 – COMMUNITY PEDIATRICS & ADVOCACY EXPERIENCE**

2-4 credits.

Medical students will learn about the aspects of the health care of children which lie outside of the traditional hospital/clinic systems. Gaining a strong appreciation of the social determinants of health, public health measures, and systems-based approaches is a key aspect of this elective. An advocacy project will be formulated and completed as part of this rotation.

**Requisites:** Fourth-year Medical Student status**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**PEDIAT 970 – PEDIATRIC RHEUMATOLOGY**

2-4 credits.

Students will see patients in outpatient clinics, round with inpatient attendings, five times a week, attend pediatric rheumatology conferences, attend weekly pediatric grand rounds, observe procedures and attend one-on-one tutorials.

**Requisites:** Pediatrics 812**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PEDIAT 973 – PEDIATRIC GASTROENTEROLOGY**

2-4 credits.

Students will participate in pediatric gastroenterology outpatient clinics, round with inpatient faculty, attend pediatric gastroenterology conferences, attend daily pediatric conferences including morning report, case conferences, and grand rounds. Students will also be able to observe procedures in the operating room. Students will be responsible for a 20 minute case-based presentation at the end of the rotation.

**Requisites:** PEDIAT 812 or MED SC-M 810**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**PEDIAT 990 – RESEARCH**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



# PHARMACEUTICAL SCIENCES (PHM SCI)

## PHM SCI 310 – DRUGS AND THEIR ACTIONS

2 credits.

Introduces students to the biological effects of drugs on human health. Emphasis on how drugs, especially those used in diseases of major human health significance, act in the body. Drugs that are abused also will be covered. This course is not intended for medical, nursing, pharmacy, and physician assistant students.

**Requisites:** Not open to students declared in the Nursing, Physician Assistant, or Doctor of Pharmacy programs

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

## PHM SCI 401 – SURVEY OF PHARMACOLOGY

3 credits.

Pharmacological and toxicological actions and therapeutic use of important drugs. Not open to School of Pharmacy students

**Requisites:** PHYSIOL 335 and (BIOCHEM 201, 501 or BMOLCHEM 314).

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

## PHM SCI 420 – INTRODUCTION TO DRUG ACTION AND DRUG DELIVERY I

I

4 credits.

Applications of physical principles and modern methods of analysis to pharmaceutical systems.

**Requisites:** Declared in Doctor of Pharmacy program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

## PHM SCI 421 – INTRODUCTION TO BIOPHARMACEUTICS AND PHARMACOKINETICS

3 credits.

To integrate and utilize the knowledge obtained from chemistry, biochemistry, physiology, pathophysiology, and anatomy in order to develop an understanding of the fundamental principles governing biopharmaceutics, drug pharmacokinetics and drug pharmacodynamics.

**Requisites:** PHM SCI 420 and PHYSIOL 335

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

## PHM SCI/B M E 430 – BIOLOGICAL INTERACTIONS WITH MATERIALS

3 credits.

Addresses the range of materials currently being utilized for various biomedical applications, the biological systems governing biomaterial applications, analytical techniques pertinent to biomaterial evaluation, and selected major medical applications in which biomaterials play an important role.

**Requisites:** (BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102, BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151, ZOOLOGY 153, or BIOCORE 383) and (CHEMISTRY 341 or 343)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

## PHM SCI 432 – PHARMACEUTICAL BIOCHEMISTRY

4 credits.

Chemistry of metabolic processes and products of living matter with emphasis on pharmaceutical and medicinal aspects as well as recombinant DNA technology. Laboratory experience with the chemistry of metabolic processes, products of living matter and recombinant DNA.

**Requisites:** Declared in Doctor of Pharmacy program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

## PHM SCI 490 – SELECTED TOPICS IN PHARMACEUTICAL SCIENCES

1-4 credits.

Specialized subject matter of current interest to undergraduate and professional students.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## PHM SCI 491 – SELECTED TOPICS IN PHARMACEUTICAL SCIENCES

1-4 credits.

Specialized subject matter of current interest to graduate students.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

## PHM SCI 493 – SELECTED TOPICS IN PHARMACEUTICAL SCIENCES

1-4 credits.

Specialized subject matter of current interest to graduate students.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHM SCI/PHM COL-M 521 – PHARMACOLOGY I**

3 credits.

Pharmacological actions of important drugs, including drugs that affect the peripheral nervous system, the central nervous system, and the gastrointestinal tract.

**Requisites:** Junior standing and Pharmacology and Toxicology undergraduate program or declared in the Doctor of Pharmacy program with second year standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM SCI/PHM COL-M 522 – PHARMACOLOGY II**

3-4 credits.

Pharmacological actions of important drugs, including hematopoietic, thrombolytic, antihyperlipidemic, immunopharmacologic, anticancer, anti-inflammatory, diuretic, antihypertensive, antianginal, and anti-arrhythmic agents, and agents used to treat congestive heart failure.

**Requisites:** PHM COL-M/PHM SCI/PHM COL-M 521

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM SCI 531 – MEDICINAL CHEMISTRY I**

2 credits.

Chemistry of medicinal products, including cholinergic, adrenergic, dopaminergic and serotonergic agents, antidepressants, sedative/hypnotics, anti-anxiety drugs, opioid drugs acting at histamine receptors, and inhibitors of mediator release.

**Requisites:** PHM SCI 432

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM SCI 532 – MEDICINAL CHEMISTRY II**

2 credits.

Chemistry of medicinal products, including antihyperlipidemics, glucocorticoids, estrogens, progestins, nonsteroidal anti-inflammatories, antitumor agents, and enzyme inhibitors.

**Requisites:** PHM SCI 531

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM SCI 540 – DRUG DELIVERY SYSTEMS**

4 credits.

The application of physical, chemical and biological principles to the study of drug delivery using a variety of solid, solution and disperse systems as dosage forms. Rationale for therapeutic use, formulation and manufacture, and evaluation of stability and bioavailability.

**Requisites:** PHM SCI 421 and concurrent enrollment in PHM SCI 542

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM SCI 541 – PHARMACEUTICAL CALCULATIONS, DISPENSING AND COMPOUNDING**

3 credits.

Introductory laboratory course in compounding and dispensing of pharmaceutical dosage forms, including sterile products. Includes practice in interpretation of prescription orders, pharmaceutical calculations, compounding procedures, physical manipulation of drugs and dosage form components, and product packaging and labeling.

**Requisites:** PHM SCI 420

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM SCI 542 – DRUG DELIVERY SYSTEMS LABORATORY II**

3 credits.

Advanced extemporaneous prescription compounding and preparation of sterile products, with emphasis on physico-chemical stability and compatibility of drugs and dosage forms. Also addresses principles of appraisal, comparison, and selection of appropriate commercial brand name and generic products.

**Requisites:** PHM SCI 541 and concurrent registration in PHM SCI 540

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM SCI 558 – LABORATORY TECHNIQUES IN PHARMACOLOGY AND TOXICOLOGY**

2 credits.

Basic laboratory techniques employed in pharmacological and toxicological research.

**Requisites:** Declared in the Pharmacology and Toxicology undergraduate program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM SCI 623 – PHARMACOLOGY III**

3 credits.

Pharmacological actions and underlying basic and clinical science of antimicrobial and antiviral drugs. Pharmacology of hormones and other drugs affecting the endocrine system.

**Requisites:** PHM COL-M/PHM SCI/PHM COL-M 522

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM SCI/M&ENVTOX/MEDICINE/ONCOLOGY/PATH/PHM COL-M/POP HLTH 625 – TOXICOLOGY I**

3 credits.

Basic principles of toxicology and biochemical mechanisms of toxicity in mammalian species and man. Correlation between morphological and functional changes caused by toxicants in different organs of the body.

**Requisites:** BIOCHEM 501, PHYSIOL 335, PATH 404 and PHM SCI 401

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM SCI/M&ENVTOX/MEDICINE/PATH/PHM COL-M/POP HLTH 626 – TOXICOLOGY II**

3 credits.

Survey of the basic methods and fundamental biochemical mechanisms of toxicity. Toxicity in mammalian organ systems, techniques for evaluating toxicity, as well as mechanisms of species specificity, and environmental interactions (with toxicant examples) are presented.

**Requisites:** MENVTOX/MEDICINE/ONCOLOGY/PATH/PHM COL-M/PHM SCI/POP HLTH/M&ENVTOX/MEDICINE/ONCOLOGY/PATH/PHM SCI/PHM COL-M 625

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM SCI 679 – PHARMACOLOGY AND TOXICOLOGY SEMINAR**

1 credit.

Senior student presentations of independent research or of published papers on a specific topic approved by the course coordinator. Faculty-led seminars on selected topics regarding responsible conduct of research.

The course also provides a venue for career talks by Pharmacology and Toxicology alumni and guests working in a variety of professional settings - research, industry (pharmaceutical; biotech; contract research; consumer products; etc.), a variety of healthcare professions, and law.

**Requisites:** Declared in the Pharmacology and Toxicology undergraduate program

**Repeatable for Credit:** Yes, for 2 number of completions

**Last Taught:** Spring 2017

**PHM SCI 691 – SENIOR THESIS**

2 credits.

Individual study for seniors completing theses as arranged with a faculty member.

**Requisites:** Consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**PHM SCI 692 – SENIOR THESIS**

2 credits.

Individual study for seniors completing theses as arranged with a faculty member.

**Requisites:** Consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**PHM SCI 699 – ADVANCED INDEPENDENT STUDY**

3 credits.

Directed study projects as arranged with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHM SCI 760 – GRADUATE STUDENT SEMINAR IN DRUG DELIVERY**

1 credit.

Students present original laboratory research or review literature in the setting of their fellow graduate student colleagues and the drug delivery faculty.

**Requisites:** Declared in Pharmaceutical Sciences graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2009

**PHM SCI/CHEM 766 – MOLECULAR RECOGNITION**

2-3 credits.

Origin, nature, classification, and description of intermolecular forces.

The hydrophobic effect. Molecular complexes, binding constants, and their measurements. General principles of self-assembly, molecular recognition, complex formation, host design. Supramolecular systems and their dynamics. Micelles, bilayers, vesicles, biological membranes.

**Requisites:** CHEM 561

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM SCI 768 – PHARMACOKINETICS**

3 credits.

Quantitative aspects of drug absorption, distribution, metabolism, and excretion. Philosophy and applications of pharmacokinetic modeling and its use in clinical practice.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM SCI 773 – MOLECULAR SOLIDS**

2 credits.

Describes the structures, properties, formation, and transformation of molecular solids, with emphasis on pharmaceutical solids. In each area, relevant theory, experiments, and case studies are presented.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**PHM SCI 775 – POLYMERIC DRUG DELIVERY**

2 credits.

Introduction to polymers used in drug delivery, specifically polymers used in the spatial and temporal control of drugs. Discussion of basic reactions for the synthesis of polymers, biodegradable polymers, water-soluble polymer-drug conjugates, polymer assembly and nanoscale devices, and stimuli-sensitive polymers.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**PHM SCI 780 – PRINCIPLES OF PHARMACEUTICAL SCIENCES**

3 credits.

Introductory-level graduate course providing overview of the drug development process, involving drug discovery, drug action, and drug delivery. Exposes students to cutting-edge research and the chemistry, biology, physical chemistry, and engineering that underpin pharmaceutical sciences research.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHM SCI 786 – NATURAL PRODUCT SYNTHESIS, BIOSYNTHESIS AND DRUG DISCOVERY**

3 credits.

Synthesis and biosynthesis of natural products in drug discovery. Topics include: natural products in drug discovery; biosynthetic pathways and synthetic strategies for major natural product classes; and basic bioorganic chemistry and enzyme mechanisms in biosynthesis.

**Requisites:** CHEM 345 and BIOCHEM 508**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**PHM SCI/B M E 801 – SEMINAR ON DEVELOPMENT OF MEDICAL DEVICES AND DRUGS**

1 credit.

An overview of three major sectors of medical product and technology development including pharmaceuticals, medical devices and combination products. Regulatory framework, disclosure and patenting, technical design and development strategy, academia-specific development challenges will be among the major lecture topics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**PHM SCI 890 – HIGHLIGHTS AT THE CHEMISTRY-BIOLOGY INTERFACE I**

1 credit.

Principles of key discoveries at the chemistry-biology interface. This course is required of all Chemistry-Biology Interface trainees.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PHM SCI 891 – HIGHLIGHTS AT THE CHEMISTRY-BIOLOGY INTERFACE II**

1 credit.

Principles of key discoveries at the chemistry-biology interface. This course is required of all Chemistry-Biology Interface trainees.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**PHM SCI 931 – PHARMACEUTICAL SCIENCES SEMINAR**

1 credit.

Weekly series that provides exposure to a diverse array of research topics. Students enroll in one of three sections, corresponding to their research core (Drug Action, Drug Discovery, or Drug Delivery). Students in their 2nd year and beyond present their research progress or review literature. The course includes talks from nationally and internationally recognized scientists from academia and industry.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PHM SCI 932 – PHARMACEUTICAL SCIENCES SEMINAR**

1 credit.

Weekly series that provides exposure to a diverse array of research topics. Students enroll in one of three sections, corresponding to their research core (Drug Action, Drug Discovery, or Drug Delivery). Students in their 2nd-year and beyond present their research progress or review literature. The course includes talks from nationally and internationally recognized scientists from academia and industry.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**PHM SCI 990 – RESEARCH**

1-12 credits.

Independent research and writing for graduate and students under the supervision of a faculty member.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PHM SCI 999 – ADVANCED INDEPENDENT STUDY**

1-12 credits.

Directed study projects for graduate students as arranged with a faculty member.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## PHARMACOLOGY (PHM COL-M)

### PHM COL-M/PHM SCI 521 – PHARMACOLOGY I

3 credits.

Pharmacological actions of important drugs, including drugs that affect the peripheral nervous system, the central nervous system, and the gastrointestinal tract.

**Requisites:** Junior standing and Pharmacology and Toxicology undergraduate program or declared in the Doctor of Pharmacy program with second year standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### PHM COL-M/PHM SCI 522 – PHARMACOLOGY II

3-4 credits.

Pharmacological actions of important drugs, including hematopoietic, thrombolytic, antihyperlipidemic, immunopharmacologic, anticancer, anti-inflammatory, diuretic, antihypertensive, antianginal, and anti-arrhythmic agents, and agents used to treat congestive heart failure.

**Requisites:** PHM COL-M/PHM SCI/PHM COL-M 521

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### PHM COL-M/NTP/PHYSIOL 610 – CELLULAR AND MOLECULAR NEUROSCIENCE

4 credits.

Study of original papers leading to an understanding of the molecular basis of electrical activity in neurons. Topics include voltage-sensitive currents, molecular biology of neuronal receptors, synaptic transmission and sensory transduction. Lectures supplemented with experimental demonstrations and discussion sessions.

**Requisites:** Zoo 523 or equiv

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### PHM COL-M/ANATOMY/NTP/PHYSIOL/PSYCH 611 – SYSTEMS NEUROSCIENCE

4 credits.

Introduction to the anatomy and physiology of the mammalian nervous system. Lectures will cover the neuroanatomy of the major subdivisions of the human brain, the major sensory and motor systems, and higher order functions. Lab/discussion sections will emphasize readings from the primary literature and hands-on dissections.

**Requisites:** PHYSIOL/NTP/PHM COL-M 610

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### PHM COL-M/B M E/MED PHYS/PHYSICS/RADIOL 619 – MICROSCOPY OF LIFE

3 credits.

Survey of state of the art microscopic, cellular and molecular imaging techniques, beginning with subcellular microscopy and finishing with whole animal imaging.

**Requisites:** PHYSICS 104, 202, 208, or 248 or MED PHYS/PHYSICS/MED PHYS 265

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### PHM COL-M/M&ENVTOX/MEDICINE/ONCOLOGY/PATH/PHM SCI/POP HLTH 625 – TOXICOLOGY I

3 credits.

Basic principles of toxicology and biochemical mechanisms of toxicity in mammalian species and man. Correlation between morphological and functional changes caused by toxicants in different organs of the body.

**Requisites:** BIOCHEM 501, PHYSIOL 335, PATH 404 and PHM SCI 401

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### PHM COL-M/M&ENVTOX/MEDICINE/PATH/PHM SCI/POP HLTH 626 – TOXICOLOGY II

3 credits.

Survey of the basic methods and fundamental biochemical mechanisms of toxicity. Toxicity in mammalian organ systems, techniques for evaluating toxicity, as well as mechanisms of species specificity, and environmental interactions (with toxicant examples) are presented.

**Requisites:** MENVTOX/MEDICINE/ONCOLOGY/PATH/PHM COL-M/PHM SCI/POP HLTH/M&ENVTOX/MEDICINE/ONCOLOGY/PATH/PHM SCI/PHM COL-M 625

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**PHMCOL-M/BIOCHEM/ZOOLOGY 630 – CELLULAR SIGNAL TRANSDUCTION MECHANISMS**

3 credits.

Lecture-discussion. Comprehensive coverage of human hormones, growth factors and other mediators; emphasis on hormone action and biosynthesis, cell biology of hormone-producing cells.

**Requisites:** Intro biochem (BIOCHEM 501 or 507 508) cell biology (Biocore 303 or Zool 570 or Path750) or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHMCOL-M 699 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHMCOL-M 710 – CYTOSOLIC AND NUCLEAR SIGNALING MECHANISMS**

2 credits.

Biochemical basis of drug action.

**Requisites:** Phmcol-M 630 (formerly Zool 630/ Phmcol-M 875), BIOCHEM 601 or equiv, cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**PHMCOL-M 711 – BIOCHEMICAL PHARMACOLOGY: NEUROTRANSMITTER RECEPTORS/ION CHANNELS**

2 credits.

A consideration of neurotransmitter receptors and ion channels from a molecular perspective. Emphasis will be on current concepts in the field. Course is directed to graduate students and outstanding senior undergraduates.

**Requisites:** BIOCHEM 501 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**PHMCOL-M 717 – PHARMACOLOGY I**

4 credits.

Lectures and discussions. For students in medicine.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**PHMCOL-M 781 – MOLECULAR AND CELLULAR PRINCIPLES IN PHARMACOLOGY**

4 credits.

Provides an in-depth introduction to the molecular and cellular principles of pharmacology. Emphasis is on the mechanisms of drug and small molecule action in cells, with a particular focus on downstream signaling pathways, second messenger systems, protein kinase cascades, and the regulation of gene transcription.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**PHMCOL-M 875 – SPECIAL TOPICS IN PHARMACOLOGY**

1-3 credits.

Special topics in pharmacology. Topics may vary.

**Requisites:** Intro crse in biochem, mol biol, and genetics and cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**PHMCOL-M 901 – SEMINAR AND JOURNAL CLUB**

1-2 credits.

Students and staff present research reports of current interest.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHMCOL-M/MEDICINE 914 – THERAPEUTICS I - EMPHASIS ON CHRONIC DISEASES**

2 credits.

Students will have a greater knowledge of the use of drugs to treat common illnesses. They will better understand the appropriate selection of drugs and the management of side effects in treating chronic illnesses.

**Requisites:** 4th yr Med st or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

**PHMCOL-M 920 – TREATMENT OF CANCER PAIN-CSC**

2-12 credits.

Clinical elective for fourth year medical students.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015



**PHMCOL-M 990 – RESEARCH**

1-12 credits.

Research facilities of the department available to qualified students.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHARMACY (PHARMACY)****PHARMACY 125 – EXPLORING PHARMACY I**

2 credits.

Provides opportunities to integrate and apply introductory concepts and content related to Pharmaceutical Sciences, Social Administrative Pharmacy, and Pharmacy Practice. Students also develop academic and interpersonal skills helpful for success in current and future courses.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHARMACY 490 – SELECTED TOPICS IN PHARMACY**

1-2 credits.

Various topics related to the Pharmacy profession.

**Requisites:** Declared in Doctor of Pharmacy program

**Repeatable for Credit:** Yes, unlimited number of completions

**PHARMACY/1 SY E 608 – SAFETY AND QUALITY IN THE MEDICATION USE SYSTEM**

3 credits.

Addresses the problems of medication errors and quality in health care, problem resolutions, methods of assessment, and intervention implementation and quality management.

**Requisites:** Declared in Doctor of Pharmacy program with third year standing

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHARMACY 631 – PHARMACIST SERVICES MANAGEMENT**

2 credits.

Provides a foundation for students/practitioners to develop, implement, and manage pharmacist services in a variety of practice environments. Students will work to develop, implement, or improve new pharmacy service products in practice environments using a marketing approach.

**Requisites:** Declared in Doctor of Pharmacy program with third year standing

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**PHARMACY 635 – DRUG INTERACTIONS**

1-2 credits.

Develops the student's ability to use physiological, pharmacological, physical-chemical, pharmacokinetic, and pharmacodynamic concepts to analyze and assess drug-drug interactions.

**Requisites:** Declared in Doctor of Pharmacy program with third year standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHARMACY 640 – SUBSTANCE ABUSE AND CHEMICAL DEPENDENCE**

2 credits.

Addresses the pharmacology and toxicology of abused and dependence-producing substances, as well as treatment approaches for alcoholism, nicotine dependence, opioid dependence, and cocaine dependence.

**Requisites:** Declared in the Pharmacology and Toxicology undergraduate program or in the Doctor of Pharmacy program with second year standing

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHARMACY 645 – PHARMACEUTICAL BIOTECHNOLOGY AND PHARMACOGENOMICS**

2-3 credits.

Facilitates the understanding and application of the principles of pharmaceutical biotechnology and pharmacogenomics. The third, optional, elective credit, open only to Pharm.D. students, will consist of clinical case studies in biotechnology and pharmacogenomics, to apply theory to clinical pharmacy practice.

**Requisites:** PHM SCI 432 and Declared in the Doctor of Pharmacy program with third year standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHARMACY/NURSING/PHY ASST/PHY THER/POP HLTH 758 – INTERPROFESSIONAL PUBLIC HEALTH LEADERSHIP**

1 credit.

Provides students with an opportunity to engage in collaboration, problem solving and teamwork in an interdisciplinary framework as they prepare an Interprofessional Case Competition (Fall) or as they prepare a collaborative case conference for the health professional students on campus (Spring). As students from different healthcare and public health backgrounds interact, learn together and share their experiences, they will become better prepared to lead and collaborate professionally in the future.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHARMACY 800 – RESEARCH ETHICS: SCIENTIFIC INTEGRITY AND THE RESPONSIBLE CONDUCT OF RESEARCH**

2 credits.

Familiarizes graduate students with basic ethical issues associated with biomedical science research, taught via a case study approach. Content structured to meet NIH and NSF requirements for Responsible Conduct of Research (RCR) training. Students declared in the Pharmacology and Toxicology undergraduate program may enroll via consent of instructor.

**Requisites:** Declared in the Pharmaceutical Sciences PhD, Social and Administrative Sciences in Pharmacy PhD, or in the Pharmacy Master's program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**PHARMACY PRACTICE (PHM PRAC)****PHM PRAC 305 – CONSUMER SELF-CARE AND OVER-THE-COUNTER DRUGS**

2 credits.

Provides learners with information regarding self-care of common, minor health conditions. Emphasis on: illness prevention, health condition symptoms, guidelines for over-the-counter product use, adverse effects and alcohol/drug interactions of over-the-counter products, when to request professional care.

**Requisites:** Not open to students declared in the Nursing, Physician Assistant, or Doctor of Pharmacy programs

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC 425 – PHARMACY PRACTICE EXPERIENCE I**

1 credit.

Complements didactic coursework in communication, practice-based skills, and the pharmacists's role in the health care system. Students will participate in various community-based experiences, including group collaboration with a senior partner, observing pharmacists' roles in practice settings, and providing screenings and education outreach.

**Requisites:** Declared in the Doctor of Pharmacy program with first year standing only

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC 426 – PHARMACY PRACTICE EXPERIENCE II**

1 credit.

Experiential course that complements didactic coursework in communication, practice-based skills, and the pharmacists's role in the health care system. Students will participate in various community-based experiences, including group collaboration with a senior partner, observing pharmacists' roles in practice settings, and providing screenings and education outreach.

**Requisites:** PHM PRAC 426

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM PRAC 461 – PATHWAYS IN PHARMACY PRACTICE**

1 credit.

An introduction to, and exploration of, contemporary pharmacy practice settings and opportunities for career advancement.

**Requisites:** Declared in Doctor of Pharmacy program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC 462 – PROFESSIONAL DEVELOPMENT AND ENGAGEMENT I-DEVELOPING YOUR PROFESSIONAL IDENTITY**

1 credit.

Assists students with career exploration and recognition of how their knowledge, skills, abilities and values further their professional development. Helps students to (1) identify cultural disparities and inequities in access to quality healthcare; (2) demonstrate mutual respect and understanding towards healthcare team members to effectively collaborate and accomplish shared patient-related goals; (3) identify and prepare for future training and employment opportunities; (4) communicate their personal values, skills, and strengths; (5) implement the Continuous Professional Development Model for reflecting, learning, and evaluating progress throughout their career; and (6) act and communicate in a manner consistent with the trust given to pharmacists by patients, other healthcare providers, and society.

**Requisites:** PHM PRAC 461

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**PHM PRAC 470 – COMPUTER APPLICATIONS IN PHARMACY PRACTICE**

2 credits.

Develops skills applicable to community and hospital pharmacy practice settings. Emphasis on database and computer applications unique to pharmacy practice. No prior computer experience or knowledge is necessary.

**Requisites:** Declared in Doctor of Pharmacy program

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**PHM PRAC 490 – SELECTED TOPICS IN PHARMACY PRACTICE**

1-4 credits.

Specialized Pharmacy subject matter of current interest to undergraduate and professional students.

**Requisites:** Declared in Doctor of Pharmacy program

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHM PRAC 525 – INTRODUCTION TO PHARMACY PRACTICE EXPERIENCE III**

1 credit.

The third of six in a three-year sequence which will introduce and expose second-year Doctor of Pharmacy students to the various roles of pharmacists and the many patient-care opportunities that exist in and out of traditional pharmacy practice settings.

**Requisites:** PHM PRAC 426

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC 526 – INTRODUCTION TO PHARMACY PRACTICE EXPERIENCE IV**

1 credit.

The fourth of six in a three-year sequence which will introduce and expose second-year Doctor of Pharmacy students to the various roles of pharmacists and the many patient-care opportunities that exist in and out of traditional pharmacy practice settings.

**Requisites:** PHM PRAC 525

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM PRAC 550 – FLUID AND ELECTROLYTE THERAPY**

2 credits.

Clinical management of disorders of fluid, electrolytes, and acid-base in patients with normal and abnormal homeostatic mechanisms. Also included is parenteral nutritional support.

**Requisites:** Declared in Doctor of Pharmacy program with third year standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC 551 – CLINICAL PHARMACOKINETICS**

1 credit.

Clinical pharmacokinetics includes the application of pharmacokinetics and drug action to the selection and titration of medications. The course includes consideration of patient, disease, and drug factors that affect the concentrations of a medication and its effect, duration of effect, and elimination from the body. Calculation exercises include empiric dose selection and modification of doses based upon therapeutic drug monitoring.

**Requisites:** PHM SCI 421

**Repeatable for Credit:** No

**PHM PRAC 553 – INTEGRATED PHARMACOTHERAPY SKILLS I**

1 credit.

Learn pharmacotherapeutic skills necessary to develop competence as a pharmacist to assume the responsibility to improve therapeutic patient outcomes related to medication use. Skills will include patient communication, identification and resolution of drug related problems, and documentation.

**Requisites:** Declared in Doctor of Pharmacy program with second year standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC 554 – INTEGRATED PHARMACOTHERAPY SKILLS II**

1 credit.

Learn pharmacotherapeutic skills necessary to develop competence as a pharmacist to assume the responsibility to improve therapeutic patient outcomes related to medication use. Skills will include patient and provider communication, identification and resolution of drug related problems, and documentation.

**Requisites:** PHM PRAC 553 and 555

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM PRAC 555 – PHARMACOTHERAPY I**

2 credits.

Clinical application of medications in the management of various neurologic and psychiatric disease states. Assessment and therapeutic monitoring of drug therapy with emphasis on the concepts of drug selection, monitoring of drug effect and titration of regimen. The content also incorporates issues regarding pharmacokinetics/dynamics, drug interactions, pharmacy practice, and patient counseling.

**Requisites:** PHM SCI 421

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC 556 – PHARMACOTHERAPY II**

3 credits.

Clinical application of medications in the management of various disease states. Assessment and therapeutic monitoring of disease states and drug therapy using the concepts of pharmacokinetics/dynamics, drug interactions, pharmacy practice and patient counseling. Topics include cardiovascular and pulmonary therapeutics.

**Requisites:** PHM PRAC 553 and 555

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM PRAC 559 – INTRODUCTION TO ANTIMICROBIAL PHARMACOTHERAPY**

1 credit.

Prepares pharmacy students for antimicrobial exposure and monitoring during internships to ensure safe and effective patient use of antimicrobials.

**Requisites:** Declared in Doctor of Pharmacy program with second year standing

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM PRAC 570 – DRUG LITERATURE EVALUATION**

3 credits.

Fundamentals of drug literature and statistical evaluation to enable students to make decisions regarding the clinical use of drugs in their practice.

**Requisites:** Declared in Doctor of Pharmacy program with second year standing

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM PRAC/NURSING 605 – PHARMACOTHERAPEUTICS FOR ADVANCED PRACTICE NURSES**

3 credits.

Pharmacotherapeutics content and application for advanced practice nursing. Emphasis on selection of appropriate therapeutics, development of clinical decision-making skills, and examination of legal, ethical, and safety issues in prescribing medications.

**Requisites:** Declared in a School of Nursing graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM PRAC 610 – LEADERSHIP IN HEALTH-SYSTEM PHARMACY**

2 credits.

Designed to expose students to personal leadership qualities essential to operate efficiently within an integrated health care delivery system and advance the profession and practice of pharmacy. Students will gain a foundation to become future pharmacy leaders through an understanding of pharmacy's continual evolution in the changing health care environment.

**Requisites:** Declared in Doctor of Pharmacy program with third year standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC 611 – MEDICAL IMAGING FOR PHARMACISTS**

2 credits.

An overview of the imaging modalities offered in a Hospital Radiology Department. Completion of this course will help students understand the concepts of radiation, how it is used, and some of the tests and medications a patient may encounter when in the Radiology Department of a hospital.

**Requisites:** Declared in Doctor of Pharmacy program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC 612 – RADIOPHARMACEUTICALS**

2 credits.

A survey of the clinical diagnostic and therapeutic use of radioactive pharmaceuticals. Included is a review of nuclear physics, radiation biology, radiation chemistry, regulatory issues, and radiation safety, as these areas relate to the synthesis, formulation, dispensing, and administration of radiopharmaceuticals.

**Requisites:** PHM PRAC 611

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**PHM PRAC 617 – HEALTH SYSTEM PHARMACY DATA ANALYSIS AND INFORMATICS**

2 credits.

Weekly lectures will familiarize the student with pharmacy information systems and the use of data and data processing systems for decision support. Students will complete a data analysis and report project to drive a decision in the hospital.

**Requisites:** Graduate standing or declared in the Doctor of Pharmacy program with third year standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC 625 – INTRODUCTORY PHARMACY PRACTICE EXPERIENCE V**

0 credits.

Experiences provided by this course permit students to integrate learning from previous didactic courses (drug literature review, pharmacotherapy, and patient/provider communications) into caring for patients. Students actively participate in patient care activities while under the supervision of a clinical instructor. Students must successfully complete all required Doctor of Pharmacy second year courses prior to enrollment.

**Requisites:** Declared in Doctor of Pharmacy program with third year standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC 626 – INTRODUCTORY PHARMACY PRACTICE EXPERIENCE VI**

2 credits.

Experiences provided by this course permit students to integrate learning from previous didactic courses (drug literature review, pharmacotherapy, and patient/provider communications) into caring for patients. Students actively participate in patient care activities while under the supervision of a clinical instructor.

**Requisites:** PHM PRAC 625

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM PRAC 628 – PRACTICE INNOVATION I**

1 credit.

Application of foundational knowledge of project management to hands-on experiences planning positive change within the health care system. Students will learn to think strategically, to critically assess a problem, identify solutions, and implement change. Students will integrate concepts in their practice area of interest with the project management skills learned in this course.

**Requisites:** Declared in Doctor of Pharmacy program with third year standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**PHM PRAC 629 – PRACTICE INNOVATION II**

1 credit.

Expand upon the knowledge gained in Practice Innovation I to produce positive change within the health care system. Students will integrate concepts in their practice area of interest with the project management skills learned placing special emphasis on project implementation, measurement, and articulation of results.

**Requisites:** PHM PRAC 628

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**PHM PRAC 638 – NONPRESCRIPTION PRODUCTS & SELF-CARE**

2 credits.

Provides students with knowledge and skills needed to perform triage and make self-care and therapeutic recommendations for self-limiting health conditions commonly encountered in pharmacy practice.

**Requisites:** PHM PRAC 554, 556 and PHM SCI/PHMCOL-M/PHM SCI 522

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC 650 – COMPREHENSIVE IMMUNIZATION DELIVERY**

1 credit.

Addresses vaccine-preventable diseases and the implementation of pharmacy-based immunization delivery programs.

**Requisites:** Declared in Doctor of Pharmacy program with second year standing

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM PRAC 653 – INTEGRATED PHARMACOTHERAPY SKILLS III**

1 credit.

Learn and build upon pharmacotherapeutic skills necessary to develop competence as a pharmacist to assume the responsibility to improve therapeutic patient outcomes related to medication use. Skills will include patient and healthcare provider communication, identification and resolution of drug related problems, documentation, and complex problem solving skills.

**Requisites:** Declared in Doctor of Pharmacy program with third year standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC 654 – INTEGRATED PHARMACOTHERAPY SKILLS IV**

1 credit.

Learn and build upon pharmacotherapeutic skills necessary to develop competence as a pharmacist to assume the responsibility to improve therapeutic patient outcomes related to medication use. The course will focus on building complex problem solving skills including the integration of patient and provider communication, documentation, and evaluation of integrated patient cases with a secondary focus on patient profile reviews and comprehensive medication review and assessment.

**Requisites:** PHM PRAC 653 and 655

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM PRAC 655 – PHARMACOTHERAPY III**

3 credits.

Clinical application of medications in the management of various disease states. Assessment and therapeutic monitoring of disease states and drug therapy using the concepts of pharmacokinetics/dynamics, drug interactions, pharmacy practice and patient counseling. Topics include various renal, endocrine, gastrointestinal, rheumatologic and immunologic disease therapeutics.

**Requisites:** PHM PRAC 554 and 556

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC 656 – PHARMACOTHERAPY IV**

3-4 credits.

Clinical application of medications in the management of various disease states. Assessment and therapeutic monitoring of disease states and drug therapy using the concepts of pharmacokinetics/dynamics, drug interactions, pharmacy practice and patient counseling. Topics include various oncology and infectious disease therapeutics. A one credit elective option will be offered to students and involves academic leadership skill development. Student leaders will lead discussion activities which involve clinical cases, scientific literature review, oncology literature discussions.

**Requisites:** PHM PRAC 653, 655 and PHM SCI 623

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM PRAC 657 – SEMINARS IN PEDIATRIC PHARMACOTHERAPY**

2 credits.

Addresses the selection, dosing, and monitoring of drugs in children from birth to adolescence. Drugs in pregnancy and lactation are also addressed. The course combines lecture, small group work, and discussion.

**Requisites:** PHM PRAC 656 or concurrent enrollment

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM PRAC 658 – MEDICATION MANAGEMENT IN AMBULATORY/ PRIMARY CARE**

2 credits.

Enhanced education and integration of knowledge skills regarding pharmacotherapeutic management of ambulatory patients with common disease states, including the pharmacist's role in patient education.

**Requisites:** PHM SCI 623 and PHM PRAC 655

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**PHM PRAC 668 – SEMINARS IN CRITICAL CARE**

2 credits.

Addresses the pharmacotherapeutic management of various critical care conditions. Guest lectures, primary literature review, patient case discussions, student-led presentations, and small group work will be utilized.

**Requisites:** PHM PRAC 550, 555, 556, and 655

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**PHM PRAC 670 – VETERINARY THERAPEUTICS**

1-2 credits.

Presentation and discussion of topics that involve the therapeutic management of disease states of companion, food, and exotic animals. Emphasis is placed upon the principles of drug regulations, drug therapy, toxicology, and available commercial products.

**Requisites:** Declared in Doctor of Pharmacy program with third year standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC 671 – INTRODUCTION TO ACADEMIC PHARMACY I**

2 credits.

Introduces students to pharmacy faculty responsibilities. Students will participate in a variety of activities to expose them to the role of the pharmacy educator and will actively participate in the education of DPH-1 or DPH-2 students.

**Requisites:** Declared in Doctor of Pharmacy program with third year standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC/NUTR SCI 672 – HERBALS, HOMEOPATHY, AND DIETARY SUPPLEMENTS**

2-3 credits.

Covers regulations and clinical science regarding the use of herbals, homeopathic remedies, and dietary supplements, focusing on peer-reviewed studies and integration with allopathic drugs; includes discussion of marketing issues.

**Requisites:** (PHM SCI 432 or BIOCHEM 501 or BMOLCHEM 314) and PHYSIOL 335

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**PHM PRAC 673 – SEMINARS IN GLOBAL HEALTH PHARMACY**

1 credit.

Explores the contribution of pharmacy and pharmacists to global health initiatives. Topics will be selected and presented by course faculty and students.

**Requisites:** Declared in Doctor of Pharmacy program

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM PRAC/NURSING 674 – SEMINARS IN INTERPROFESSIONAL MENTAL HEALTH CARE**

2 credits.

Addresses the team-based and patient-centered care of persons with mental health conditions. A special focus will be put on the management of psychotropic medication regimens. A combination of lecture, discussion, and small group work will be utilized.

**Requisites:** PHM PRAC 555

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM PRAC 676 – SEMINAR IN GERIATRICS**

2 credits.

Therapeutics topics pertaining to the pharmaceutical and medical care of the elderly. In addition, select topics on social aspects of aging will be presented.

**Requisites:** Declared in Doctor of Pharmacy program with third year standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC 677 – SEMINARS IN CARDIOLOGY**

2 credits.

Seminars, primary literature review, and patient case discussions on selected cardiovascular conditions, including: ACS, HF, valvular disease, cardiac devices, hemodynamic monitoring, heart transplantation, arrhythmias, CPR/ACLS, pulmonary arterial hypertension, stroke, and metabolic syndrome.

**Requisites:** Declared in Doctor of Pharmacy program with third year standing

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC 678 – SEMINARS IN LONG TERM CARE**

3 credits.

Students will learn clinical and legal requirements relating to pharmacy consulting in a long term care (LTC) setting.

**Requisites:** Declared in Doctor of Pharmacy program with third year standing

**Repeatable for Credit:** No

**PHM PRAC 679 – ADVANCED DIABETES MANAGEMENT**

2 credits.

Enhanced education on diabetes topics; current approaches to the medical management of patients with diabetes including the pharmacist's role in diabetes education and coaching/case management.

**Requisites:** PHM PRAC 655 or (NURSING 312 and NURSING 422)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM PRAC 691 – SENIOR THESIS**

2 credits.

Individual study for seniors completing theses as arranged with a faculty member.

**Requisites:** Consent of instructor

**Repeatable for Credit:** No

**PHM PRAC 692 – SENIOR THESIS**

2 credits.

Individual study for seniors completing theses as arranged with a faculty member.

**Requisites:** Consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Spring 1985

**PHM PRAC 699 – ADVANCED INDEPENDENT STUDY**

3 credits.

Directed study projects as arranged with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017



**PHM PRAC 710 – GERIATRIC PHARMACY PRACTICE**

2 credits.

Interprofessional approach to the health care of the elderly. Focuses on topics and issues that are relevant to the safe and effective pharmacologic and non-pharmacologic management of conditions common in the elderly and will address socio-economic aspects of aging that could impact on the care of older adults.

**Requisites:** Declared in Doctor of Pharmacy program with third year standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHM PRAC 711 – ONCOLOGY BIOMARKERS**

2 credits.

Designed to develop an understanding of cancer related biomarkers and how they are used to effectively target individualized treatment to the patient.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**PHM PRAC 740 – ACUTE PHARMACEUTICAL CARE CLERKSHIP**

6 credits.

Experiential course that integrates prior didactic course work in pharmacotherapy, pathophysiology, and drug literature evaluation into the provision of pharmaceutical care to hospitalized patients. The student will participate in the provision of direct pharmaceutical care, by monitoring drug therapy, providing patient counseling, and providing drug information and pharmacokinetic dosing recommendations for patients. In addition, the student will gain experience and insight into health education by interacting with other health professionals and health-professions students.

**Requisites:** Declared in Doctor of Pharmacy program with fourth year standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC 741 – AMBULATORY PHARMACEUTICAL CARE CLERKSHIP**

6 credits.

This required Pharm.D. experiential course integrates prior course work in pharmacotherapy, pathophysiology, and drug literature evaluation into the provision of pharmaceutical care to ambulatory patients. Students will conduct patient interviews and assessments, provide drug information to patients and health professionals, and monitor drug therapy in ambulatory settings.

**Requisites:** Declared in Doctor of Pharmacy program with fourth year standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC 742 – HEALTH-SYSTEM PHARMACY PRACTICE CLERKSHIP**

6 credits.

An experiential course that integrates prior didactic course work into the provision of care and the development and delivery of services for hospitalized patients. The student will be exposed to the 5 pillars of the medication use system (prescribing, transcribing, dispensing, administering, monitoring), plus procurement/storage along with the hospital services and processes that support them. The experience will also include, but is not limited to, exposure to hospital-based services/programs/committees such as investigational drugs, Pharmacy and Therapeutics, quality/performance improvement (DUE/MUE), technologies, and personnel management. The experience will also expose the student to best practices, regulatory, legal, and accreditation standards/requirements that influence the quality and delivery of care to hospitalized patients.

**Requisites:** Declared in Doctor of Pharmacy program with fourth year standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC 743 – COMMUNITY PHARMACY PRACTICE CLERKSHIP**

6 credits.

The purpose of the community pharmacy clerkship is to provide the student with an educational experience where they can develop the skills and judgment necessary to apply the knowledge gained in the basic and clinical sciences to specific patient care situations. In addition, the course seeks to demonstrate the philosophy that clinical (APPE) and distributive pharmaceutical services should be patient oriented and integrated in contemporary ambulatory practice.

**Requisites:** Declared in Doctor of Pharmacy program with fourth year standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC/NURSING/PEDIAT/SOC WORK 746 – INTERDISCIPLINARY CARE OF CHILDREN WITH SPECIAL HEALTH CARE NEEDS**

3 credits.

Interdisciplinary team care of children with special health care needs across the trajectory of illness presented within the context of family, culture, social determinants of health, community, and healthcare policy. Students introduced to interdisciplinary, collaborative, family-centered team care.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHM PRAC 760 – ELECTIVE PHARMACY PRACTICE CLERKSHIP**

1-6 credits.

Experiential course that integrates prior course work in pharmacotherapy, pathophysiology, and drug literature evaluation into the provision of pharmaceutical care to ambulatory patients. Students will conduct patient interviews and assessments, provide drug information to patients and health professionals, and monitor drug therapy in ambulatory settings.

**Requisites:** Declared in Doctor of Pharmacy program with fourth year standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHM PRAC 764 – VETERINARY PHARMACY CLERKSHIP**

6 credits.

Practical experience in a veterinary medicine environment with emphasis on the drug treatment of diseases in animals.

**Requisites:** Declared in Doctor of Pharmacy program with fourth year standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**PHM PRAC 769 – CLINICAL RESEARCH AND PHARMACY INVESTIGATION CLERKSHIP**

6 credits.

This experiential learning course offers students the opportunity to gain experience with clinical and translational research in a mentored situation. Students will learn study design, laboratory techniques, statistical analysis, manuscript preparation, and ethical principles of research.

**Requisites:** Declared in Doctor of Pharmacy program with fourth year standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**PHM PRAC 961 – GRADUATE SEMINAR IN HEALTH-SYSTEM PHARMACY**

1 credit.

Specialized subject matter of current interest to graduate students in the MS Pharmacy Administration program.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHM PRAC 962 – GRADUATE SEMINAR IN HEALTH-SYSTEM PHARMACY**

1 credit.

Specialized subject matter of current interest to graduate students in the MS Pharmacy Administration program.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**PHM PRAC 999 – ADVANCED INDEPENDENT STUDY**

1-12 credits.

Directed study projects for graduate students as arranged with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHILOSOPHY (PHILOS)****PHILOS 101 – INTRODUCTION TO PHILOSOPHY**

3-4 credits.

**Requisites:** Open to all students but preference will be given to Freshmen Sophomores who have had no previous philosophy course other than 210, 211, 253 or 254.

**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHILOS 104 – SPECIAL TOPICS IN PHILOSOPHY FOR FRESHMEN**

3 credits.

Examination of selected topics.

**Requisites:** Open to Fr with no prev college level coursework in philosophy

**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHILOS 106 – STUDY ABROAD IN PHILOSOPHY**

2-4 credits.

Treatment of a topic in philosophy in a course offered at a university outside the United States.

**Requisites:** Open to Fr

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**PHILOS 141 – THE MEANING OF LIFE**

3-4 credits.

This course enters the subject of philosophy through a question that is familiar to nearly every student: What is the meaning of life? This question will be approached through reading both classical philosophical works (Plato, Aristotle, Epictetus, Tolstoy, Kant) and the works of contemporary philosophers (Wolf, Nozick, Nagel, Kazez).

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**PHILOS 201 – INTRODUCTION TO PHILOSOPHY FOR JUNIORS AND SENIORS**

3-4 credits.

**Requisites:** Open only to Jrs Srs who have had no previous philos courses other than 210, 211, 253 or 254

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2015**PHILOS 206 – STUDY ABROAD IN PHILOSOPHY**

2-4 credits.

Treatment of a topic in philosophy in a course offered at a university outside the United States.

**Requisites:** None**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**PHILOS 210 – REASON IN COMMUNICATION**

3-4 credits.

Argument in familiar contexts; emphasis upon developing critical skills in comprehending, evaluating, and engaging in contemporary forms of reasoning, with special attention to the uses of argument in mass communication media. MATH 118 does not fulfill the prerequisite

**Requisites:** MATH 096 or placement into MATH 141.**Course Designation:** Gen Ed - Quantitative Reasoning Part A

Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHILOS 211 – ELEMENTARY LOGIC**

3-4 credits.

The formal characteristics of logical truth and inference.

**Requisites:** Sophomore standing and satisfied Quantitative Reasoning (QR) A requirement**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHILOS 220 – PHILOSOPHY AND THE SCIENCES**

3-4 credits.

This is a first course in philosophy of science, aimed at undergraduates who are interested in science. Throughout the course, the emphasis will be on understanding the logic of scientific reasoning. Students will learn the ABCs of deductive logic and probability reasoning, and will learn how to apply these to various central questions in philosophy of science, such as: How are causation and correlation different? What distinguishes science from pseudo-science, religion, and technology? What is a scientific explanation, and what makes one explanation better than another? How do moral issues arise in scientific research and how are they related to the question of whether a theory should be accepted? Philosophical consequences of scientific theories may also be discussed. MATH 118 does not fulfill the prerequisite

**Requisites:** MATH 096 or placement into MATH 141.**Course Designation:** Gen Ed - Quantitative Reasoning Part A

Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHILOS 241 – INTRODUCTORY ETHICS**

3-4 credits.

Nature of moral problems and of ethical theory, varieties of moral skepticism, practical ethics and the evaluation of social institutions.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHILOS 243 – ETHICS IN BUSINESS**

3-4 credits.

Case studies of moral issues in business; types or reasons appealed to for settlement.

**Requisites:** So st**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017

**PHILOS 253 – PHILOSOPHY OF THE ARTS**

3-4 credits.

Introduction to the problems of aesthetics, such as the nature of art; aesthetic experience; the description, interpretation, and evaluation of works of art.

**Requisites:** So st

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**PHILOS/RELIG ST 261 – INTRODUCTION TO THE PHILOSOPHY OF RELIGION**

3-4 credits.

Doctrines and arguments of Western and Eastern religious and philosophical traditions: deity, human nature, immortality, resurrection, religious experience, faith, reason, good, evil, etc.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**PHILOS 304 – TOPICS IN PHILOSOPHY: HUMANITIES**

3-4 credits.

Examination of selected topics in philosophy.

**Requisites:** Prerequisites vary by topic

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHILOS 305 – TOPICS IN PHILOSOPHY: SOCIAL SCIENCE**

3-4 credits.

Examination of selected topics in philosophy in social science.

**Requisites:** Prerequisites vary by topic

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2011

**PHILOS 341 – CONTEMPORARY MORAL ISSUES**

3-4 credits.

A philosophical study of some of the major moral issue in contemporary society, such as those concerning abortion, euthanasia, punishment, property, politics, sex, nuclear disarmament, and world hunger.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHILOS 430 – HISTORY OF ANCIENT PHILOSOPHY**

3-4 credits.

Various philosophers from the presocratics to the Stoics and Epicureans; particular emphasis on Plato and Aristotle.

**Requisites:** Sophomore standing and completion of 3 credits in PHILOS

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHILOS 432 – HISTORY OF MODERN PHILOSOPHY**

3-4 credits.

This course covers various philosophers from the 17th century through early 20th century.

**Requisites:** 3 credits of philosophy or consent of instructor

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHILOS 433 – 19TH CENTURY PHILOSOPHERS**

3-4 credits.

**Requisites:** Jr st 3 cr in philos or cons inst

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2013

**PHILOS/JEWISH/RELIG ST 435 – JEWISH PHILOSOPHY FROM ANTIQUITY TO THE SEVENTEENTH CENTURY**

3 credits.

A survey of major philosophers and philosophical currents within Judaism from antiquity through the seventeenth century.

**Requisites:** Enrollment limited to students who have taken 3 credits in Philosophy

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**PHILOS 440 – EXISTENTIALISM**

3-4 credits.

Feeling like life is absurd, that existence is meaningless? Worried that you aren't living authentically? Then a course in Existentialism is just what you need. Study the classic texts of this intellectual movement that expressed despondency about Western civilization, its decadence, and its values. Along the way you'll meet the likes of Kierkegaard, Nietzsche, Heidegger, Sartre, Camus, and De Beauvoir.

**Requisites:** Junior standing 3 credits in philos or consent of instructor

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**PHILOS/ENVIR ST 441 – ENVIRONMENTAL ETHICS**

3-4 credits.

Adequacy of ethical theories in handling such wrongs as harm to the land, to posterity, to endangered species, and to the ecosystem itself. Exploration of the view that not all moral wrongs involve harm to humans. Inquiry into the notion of the quality of life and the ethics of the "lifeboat" situation.

**Requisites:** Undergraduate students with 3 credits in Philosophy or Institute of Environmental Studies or graduate student in IES Program

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHILOS/JEWISH 442 – MORAL PHILOSOPHY AND THE HOLOCAUST**

3 credits.

Selected moral and philosophical issues raised by the Holocaust such as when and whom to rescue; includes issues arising after the annihilation such as forgiveness and reconciliation.

**Requisites:** Junior standing

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHILOS 454 – CLASSICAL PHILOSOPHERS**

3 credits.

One or more classical philosophers, movements, or problems selected for intensive study.

**Requisites:** Junior standing and completion of 3 credits in PHILOS

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHILOS 464 – CLASSICAL PHILOSOPHERS**

3 credits.

One or more classical philosophers, movements, or problems selected for intensive study.

**Requisites:** Junior standing and completion of 3 credits in PHILOS

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**PHILOS 481 – JUNIOR HONORS SEMINAR**

3 credits.

One or more philosophers, movements, or problems selected for intensive study. 0 GPA in philos and cons inst

**Requisites:** Jr st certif as hon cand, 6 cr in philos, 3.

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHILOS 482 – JUNIOR HONORS SEMINAR**

3 credits.

Same as 481. 0 GPA in Philos-4.0 basis

**Requisites:** Jr st 6 cr in philos 3.

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHILOS/RELIG ST 501 – PHILOSOPHY OF RELIGION**

3-4 credits.

Analysis of religious experience and activity, and examination of principal religious ideas in light of modern psychology, philosophy, science, and anthropology.

**Requisites:** Junior standing

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**PHILOS/RELIG ST 502 – SPECIAL TOPICS IN PHILOSOPHY OF RELIGION**

3 credits.

One or more topics selected from among the following: religious discourse, God, evil, survival, great philosophers of religion, etc. Variable content.

**Requisites:** Junior standing

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2013



**PHILOS 503 – THEORY OF KNOWLEDGE**

3 credits.

A survey of problems concerning the nature, sources, and limits of human knowledge, including such topics as scepticism, the concept of knowledge, sensory perception, evidence, justified belief, induction.

**Requisites:** PHILOS 101, 103, 201, or cons inst; Jr st

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHILOS 504 – SPECIAL TOPICS IN THE THEORY OF KNOWLEDGE**

3 credits.

One or more special topics in the Theory of Knowledge or one or more major theories of knowledge. Variable content.

**Requisites:** Jr st and 3 cr philos

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**PHILOS/MED HIST 505 – JUSTICE AND HEALTH CARE**

3 credits.

Examines ethical issues in the distribution, financing, and delivery of health care (primarily in the United States). The first third of the class explores key issues in U.S. health policy and forms the empirical foundation for the rest of the class. The second third explores ongoing debates in moral and political philosophy over putative entitlements to health and health care. The last third investigates the nature, justifiability, and methods of health care rationing; including bedside rationing by doctors; and the myriad issues implicated by the near-universally shared goal of health care cost containment.

**Requisites:** Junior standing or Senior standing or Graduate standing required.

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHILOS 506 – STUDY ABROAD IN PHILOSOPHY**

2-4 credits.

Treatment of a topic in philosophy in a course offered at a university outside the United States.

**Requisites:** None

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**PHILOS 511 – SYMBOLIC LOGIC**

3 credits.

Propositional and predicate logic, with emphasis on metatheory; independence of rules and completeness theorems; discussion of technical and philosophical limitations of classical logic.

**Requisites:** Enrollment limited to students with junior standing or higher and have taken PHILOS 211

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHILOS 512 – METHODS OF LOGIC**

3 credits.

Selected topics in philosophical logic and in the various applications of logic to philosophical problems. Variable content.

**Requisites:** PHILOS 211

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**PHILOS/MED HIST 515 – PUBLIC HEALTH ETHICS**

3 credits.

Focuses on ethical issues implicated in a population-level approach to disease prevention and health promotion. Explores prominent theoretical approaches to public health ethics and engages with several ethical tensions. Issues discussed can include: the use of coercive or intrusive public health interventions that restrict individual freedom, infringe upon individual privacy, and/or invite individual harm (or risks of harm); the justification of paternalistic measures in societies or sub-populations that seemingly indulge in pleasurable yet unhealthy behaviors; the extent to which societies should hold individuals responsible for their health conditions; the need to decide who receives life-saving treatment or vaccination when not all can; the need to choose between the identifiable victims we can save with expensive measures here and now and the more numerous unidentifiable victims we could save in the future with the same monetary investment; the trade-offs between maximizing aggregate health benefits and addressing the special needs of vulnerable social sub-groups and individuals; climate changes and intergenerational justice; ethical issues in international pharmaceutical research, and the need to establish reasonable limits to public health demands in a world where health outcomes are profoundly influenced by policies in other domains (such as transportation, housing, unemployment, and education) that generate their own ethical problems and imperatives.

**Requisites:** Junior standing or Senior standing or Graduate standing required.

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016



**PHILOS 516 – LANGUAGE AND MEANING**

3 credits.

The nature and function of language, theories of meaning, semantic and syntactic paradoxes, proper names, private languages, rules, and linguistic relativity.

**Requisites:** Junior standing and completion of 3 credits in PHILOS

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHILOS 520 – PHILOSOPHY OF THE NATURAL SCIENCES**

3 credits.

Nature and functions of science; the logic of scientific method; clarification of such concepts as cause, law, theory, probability, determinism, teleology.

**Requisites:** Junior standing and completion of 3 credits in PHILOS

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**PHILOS 521 – PHILOSOPHY OF THE SOCIAL SCIENCES**

3 credits.

Problems in applying methods and concepts of science to the study of social behavior.

**Requisites:** Junior standing and completion of 3 credits in PHILOS

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**PHILOS 522 – SPECIAL TOPIC**

3 credits.

Selected from logic of theory construction, theoretical entities, models, applied mathematics, nature of laws, conventionalism, probability, etc. Variable content.

**Requisites:** Prereqs vary according to topic

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2013

**PHILOS/ENVIR ST 523 – PHILOSOPHICAL PROBLEMS OF THE BIOLOGICAL SCIENCES**

3 credits.

Problems raised by genetics, evolutionary theory, and taxonomy; patterns of explanatory force and dispensability of teleology; objectivity of taxonomy.

**Requisites:** 3 cr of philos or 3 cr in a biological science

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**PHILOS/ECON 524 – PHILOSOPHY AND ECONOMICS**

3 credits.

Economics examined from the viewpoint of the philosophy of science. Normative and positive aspects of economic theory. Deterministic and statistical explanation. Arrow impossibility theorem. Radical economics. Team taught by a philosopher and an economist.

**Requisites:** Enrollment limited to students with Junior Standing or higher and have taken 3 credits in Economics or Philosophy

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHILOS 526 – PHILOSOPHY AND LITERATURE**

3 credits.

Analysis of philosophic ideas as embodied in literary works and the relation of these ideas to other aspects of the works such as plot, structure, characterization and language. Discussion of related questions about literature, literary themes, and thematic criticism.

**Requisites:** Junior standing and completion of 3 credits in PHILOS

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**PHILOS 530 – FREEDOM FATE AND CHOICE**

3 credits.

Readings in Mill, James, Russell, Sartre and others to study the origin of the problem, clarify the issues, and attain a reasonable solution.

**Requisites:** Junior standing and completion of 3 credits in PHILOS

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHILOS 541 – MODERN ETHICAL THEORIES**

3 credits.

Ethical theories and problems as discussed in the late nineteenth and twentieth centuries.

**Requisites:** Junior standing and completion of 3 credits in PHILOS

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHILOS 543 – SPECIAL TOPICS IN ETHICS**

3 credits.

Intensive study of ethical theory, or of one or more ethical theories or moral philosophers of the present or modern period. Variable content.

**Requisites:** Jr st 3 cr in philos or cons inst

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2012

**PHILOS/ED POL 545 – PHILOSOPHICAL CONCEPTIONS OF TEACHING AND LEARNING**

3 credits.

Examination and analysis of conceptions of teaching and learning in classical philosophical works and in contemporary literature in the philosophy of education.

**Requisites:** Junior standing

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**PHILOS 549 – GREAT MORAL PHILOSOPHERS**

3 credits.

Major themes of moral philosophy, from Plato and Aristotle to Bentham and Mill, with critical study of outstanding works.

**Requisites:** Junior standing and completion of 3 credits in PHILOS

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHILOS/ED POL 550 – PHILOSOPHY OF MORAL EDUCATION**

3 credits.

Critical examination of classical and contemporary conceptions of moral education.

**Requisites:** Junior standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**PHILOS 551 – PHILOSOPHY OF MIND**

3 credits.

Nature of mind (mental states such as thinking and feeling) and its relation to physical states, with emphasis on recent advances in philosophy and psychology.

**Requisites:** Junior standing and completion of 3 credits in PHILOS

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHILOS 553 – AESTHETICS**

3 credits.

Analysis of current philosophies of art and of criticism.

**Requisites:** Junior standing and completion of 3 credits in PHILOS

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**PHILOS 554 – PHILOSOPHY OF THE ARTIFICIAL SCIENCES**

3 credits.

Examination of issues surrounding artificial intelligence and artificial life; discussion of the natures of mind and life; evaluation of competing computational paradigms for modeling mind; analysis of contributions artificial sciences can make to psychology and biology.

**Requisites:** Junior standing and completion of 3 credits in PHILOS

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**PHILOS 555 – POLITICAL PHILOSOPHY**

3 credits.

Philosophical doctrines involved in justification of political decisions; analysis of some fundamental concepts, e.g. the common good, authority, justice, natural law, natural rights.

**Requisites:** Junior standing and completion of 3 credits in PHILOS

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHILOS 556 – TOPICS IN FEMINISM AND PHILOSOPHY**

3 credits.

Topics from historical and contemporary feminist thought; attention to one or more feminist philosophers, historical movements, philosophical frameworks, or sets of philosophically related issues.

**Requisites:** Junior standing and completion of 3 credits in PHILOS

**Course Designation:** Breadth - Either Humanities or Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**PHILOS 557 – ISSUES IN SOCIAL PHILOSOPHY**

3 credits.

Specific topics in social and political philosophy such as war and peace, property and industry, individualism and collectivism, freedom and justice.

**Requisites:** Junior standing and completion of 3 credits in PHILOS

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**PHILOS/MED HIST 558 – ETHICAL ISSUES IN HEALTH CARE**

3 credits.

Ethical issues apparently created by new biomedical technologies, such as genetic screening, prenatal diagnosis, prolongation of life, treatment of severe birth defects, in vitro fertilization, behavior modification, psychosurgery, and transplantation.

**Requisites:** Junior standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHILOS 559 – PHILOSOPHY OF LAW**

3 credits.

Nature and function of law, relations between law and morality, logic of legal reasoning, analysis of fundamental concepts and institutions.

**Requisites:** Junior standing and completion of 3 credits in PHILOS

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**PHILOS 560 – METAPHYSICS**

3 credits.

Major problems in metaphysics, such as: existence, universals and particulars, space and time, individuals, categories, substance and attribute, necessity.

**Requisites:** Junior standing and completion of 3 credits in PHILOS

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHILOS 562 – SPECIAL TOPICS IN METAPHYSICS**

3 credits.

An intensive study of one or more topics such as: existence, universals and particulars, space and time, individuals, individuation, categories, substance and attribute, necessity, events and processes.

**Requisites:** Junior standing and completion of 3 credits in PHILOS

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**PHILOS/AGRONOMY/C&E SOC/MED HIST 565 – THE ETHICS OF MODERN BIOTECHNOLOGY**

3-4 credits.

Study of ethical issues arising from the application of modern biotechnology to microorganisms, crops, and non-human animals. Readings cover moral theory, technology studies, political philosophy, the science used in biotechnology, and current regulations governing its use.

**Requisites:** Junior standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHILOS/MATH 571 – MATHEMATICAL LOGIC**

3 credits.

Basics of logic and mathematical proofs; propositional logic; first order logic; undecidability.

**Requisites:** MATH 340 or 341 or 375

**Course Designation:** Breadth - Either Humanities or Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHILOS 581 – SENIOR HONORS SEMINAR**

3 credits.

2 GPA in philos

**Requisites:** Certif as honors cand, Sr st 12 cr in philos, 3.

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHILOS 582 – SENIOR HONORS SEMINAR**

3 credits.

2 GPA in philos

**Requisites:** Sr st, 12 cr in philos, 3.

**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHILOS 599 – DIRECTED STUDY**

1-3 credits.

Graded on a lettered basis; requires written cons inst approval of department chairman

**Requisites:** Jr or Sr st.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**PHILOS 681 – SENIOR HONORS THESIS**

1-3 credits.

**Requisites:** Honors cand, consult dept honors adviser

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHILOS 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Honors cand, consult dept honors adviser

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**PHILOS 691 – SENIOR THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHILOS 692 – SENIOR THESIS**

3 credits.

Continuation of 691.

**Requisites:** PHILOS 691, consult adviser

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHILOS 698 – DIRECTED STUDY**

2-3 credits.

Graded on a Cr/N basis; requires written cons inst, approval of dept chairman needed

**Requisites:** Sr st.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**PHILOS 699 – DIRECTED STUDY**

2-3 credits.

Graded on a lettered basis; requires written cons inst, approval of dept chairman needed

**Requisites:** Sr st.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHILOS 701 – READING SEMINAR**

3 credits.

An examination of select topics in philosophy.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHILOS 799 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Grad st, written cons inst and dept chairperson

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**PHILOS/CLASSICS 830 – ADVANCED HISTORY OF PHILOSOPHY**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHILOS 835 – ADVANCED HISTORY OF PHILOSOPHY**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**PHILOS 838 – ADVANCED HISTORY OF PHILOSOPHY-KANT**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2012

**PHILOS 902 – PROSEMINAR IN PHILOSOPHY**

3 credits.

Provides the core material (across otherwise diverse specialties) required by all incoming graduate students in philosophy. There will be an emphasis on close reading of texts and writing skills in addition to the content of the course.

**Requisites:** Declared in Philosophy graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHILOS 903 – SEMINAR: EPISTEMOLOGY**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**PHILOS 911 – SEMINAR-LOGIC**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**PHILOS 916 – SEMINAR-PHILOSOPHY OF LANGUAGE**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**PHILOS 920 – SEMINAR-PHILOSOPHY OF SCIENCE: CAUSATION, EXPLANATION & PROBABILITY**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHILOS 930 – SEMINAR-HISTORY OF PHILOSOPHY**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2009

**PHILOS 941 – SEMINAR-ETHICS**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHILOS 951 – SEMINAR-PHILOSOPHY OF MIND**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHILOS 955 – SEMINAR SOCIAL AND POLITICAL PHILOSOPHY**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**PHILOS 960 – METAPHYSICS SEMINAR**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**PHILOS/RELIG ST 961 – SEMINAR-PHILOSOPHY OF RELIGION**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2010

**PHILOS 990 – RESEARCH AND THESIS**

2-9 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHILOS 994 – RESEARCH IN ETHICS**

2-9 credits.

**Requisites:** Consult major professor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**PHILOS 999 – INDEPENDENT WORK**

2-9 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## PHYSICAL THERAPY (PHY THER)

**PHY THER 501 – ANATOMICAL APPLICATIONS IN PHYSICAL THERAPY**

3 credits.

Application of anatomy and palpatory skills in a clinically-oriented environment. Focus is on applied anatomy, kinesiology, posture, movement analysis, medical terminology.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**PHY THER 512 – PRINCIPLES OF PROFESSIONAL PRACTICE AND ADMINISTRATION**

3 credits.

Ethics, organization and administration of physical therapy departments. Planning and correlation of hospital and community health services. Study background, organization and responsibilities of health care team members in hospital services and programs.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHY THER 521 – PHYSICAL AGENTS**

2 credits.

The scientific rationale for and the clinical application of thermal, electrical, and mechanical agents in physical therapy practice.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**PHY THER 523 – CARDIOVASCULAR AND PULMONARY ASPECTS OF PHYSICAL THERAPY TREATMENT**

3 credits.

Covers: 1) methods used in physical therapy (PT) management of cardiovascular and pulmonary disease, 2) influence of coexisting cardiovascular and pulmonary dysfunction on PT treatment for other primary diagnoses, and 3) screening for occult cardiovascular and pulmonary disease.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHY THER 527 – FOUNDATIONS OF PHYSICAL THERAPY: EXAMINATION AND EVALUATION**

4 credits.

Lab-based course that introduces history taking and physical examination skills germane to assessment of patients with orthopedic and neurologic diagnoses in inpatient and outpatient settings. Introduces clinical decision-making and documentation skills with a focus on examination tests and measures. Labs involve the psychomotor application of exam skills. Outside activities with community partners are an integral part of the course.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHY THER 534 – FOUNDATIONS OF PHYSICAL THERAPY INTERVENTION**

4 credits.

Examination for exercise design, implementation, and progression. Range of motion, flexibility, joint mobilization, balance/gait training, proprioceptive neuromuscular facilitation, balance, coordination, agility training, body mechanics, postural stabilization, resistive and endurance training, aquatic therapy, relaxation, manual traction, massage. Scientific rationale for treatment interventions.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHY THER 538 – INTRODUCTION TO THE PHYSICAL THERAPY PROFESSION AND PROFESSIONALISM**

1 credit.

Professional attitudes, beliefs, behaviors relevant to physical therapy practice through the Guide to Physical Therapist Practice, APTA history, Generic Abilities, APTA Code of Ethics, APTA Core Values, PT roles and practice settings, professional autonomy, health care teams, professional learning opportunities.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017



**PHY THER 539 – PHYSICAL THERAPY EDUCATION AND LIFESPAN LEARNING ISSUES**

1 credit.

Instructional design, learning theories and styles throughout the lifespan, literacy issues, professional presentations and posters, the physical therapist as educator, professional behaviors and emotional preparation for the clinic.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHY THER 540 – PSYCHOSOCIAL ASPECTS OF HEALTH CARE**

1 credit.

Professional attitudes, beliefs and behaviors relevant to physical therapy practice. Communication issues related to caregiving, multidisciplinary teams, conflict management, body image, psychosocial aspects of aging, stages of loss, collaborative care, and family-centered care.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHY THER 541 – ISSUES OF CULTURE AND DIVERSITY IN HEALTH CARE**

1 credit.

Students will explore their own backgrounds and will learn constructs of cultural competency; cultural beliefs and practices; impact of diversity issues such as SES, sexual preference, disability, educational level, ethnicity and race; and the culture of medicine.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHY THER 542 – MEDICAL ETHICS, JURISPRUDENCE, AND HEALTH CARE REGULATIONS**

1 credit.

Provides an introduction to medical ethics and jurisprudence as they apply to physical therapy. Includes information on health care regulatory agencies and health care regulations.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**PHY THER 543 – PROFESSIONAL PRACTICE ISSUES IN PHYSICAL THERAPY**

1 credit.

The final of six seminar courses, this course will present issues that will assist the physical therapist student transition into the profession during and following their final clinical internships.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHY THER 627 – CLINICAL DECISION-MAKING: TISSUE MECHANICS AND ADAPTATIONS**

3 credits.

This course addresses the cardiovascular, pulmonary, neuromuscular and connective tissue properties and adaptations that influence human movement through the lifespan. Through an understanding of the system integration the student will gain an appreciation of the physiological complexities underlying human movement.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHY THER 628 – CLINICAL DECISION MAKING: NEUROMUSCULAR MECHANICS AND CONTROL**

4 credits.

Addresses the mechanics and control of the neuromuscular and skeletal systems as they relate to human movement. Neural control of movement is discussed in detail with specific emphasis on theories underlying recruitment of muscle in health and disease.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHY THER 635 – MOTOR CONTROL DYSFUNCTION : EXAMINATION, DIAGNOSIS, AND MANAGEMENT I**

5 credits.

Application of motor control and motor learning principles to the examination, diagnosis, and management of people with movement disorders stemming from CNS pathology. Emphasis on neurological interventions across the lifespan.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHY THER 636 – MOTOR CONTROL DYSFUNCTION: EXAMINATION, DIAGNOSIS, AND MANAGEMENT II**

5 credits.

Application of motor control and motor learning principles to the examination, diagnosis, and management of people with movement disorders from spinal cord injuries, PNS dysfunction and progressive disorders of the CNS.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHY THER 640 – SCIENTIFIC INQUIRY IN PHYSICAL THERAPY**

3 credits.

This course focuses on critical evaluation of research findings, a fundamental component of evidence-based practice. Examples from the rehabilitation literature are used to illustrate principles of measurement theory, research design, statistical analysis, and scientific inference.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHY THER 641 – CURRENT ISSUES IN REHABILITATION**

1 credit.

This course focusses on critical evaluation of published research relevant to physical therapy. In seminar format, students present the results of original research, and lead discussions of the strengths, weaknesses, and underlying theory of the research.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHY THER 642 – RESEARCH PRACTICUM**

1-3 credits.

In this elective course, the students will receive in-depth training in various aspects of research (e.g., literature review, understanding of study methodology, data collection, data reduction and analysis, dissemination of findings). Students will work independently under the supervision of a faculty member from the UW Doctor of Physical Therapy program and will participate in an on-going project for the semester.

**Requisites:** Enrollment in the Doctor of Physical Therapy program with satisfactory completion of all courses to date; or upon approval of course instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHY THER 643 – CURRENT ISSUES IN REHABILITATION RESEARCH II**

1 credit.

Focuses on critical evaluation of published research relevant to physical therapy. In seminar format, students present the results of original research, and lead discussions of the strengths, weaknesses, and underlying theory of the research.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHY THER 664 – CLINICAL MEDICINE I**

5 credits.

Modules in medical screening, pharmacological principles, diagnostic imaging, laboratory testing, psychological disorders, ENT, endocrinology, dermatology, and geriatrics are presented in the context of pathophysiology, differential diagnosis, prevention, and management. Lectures provided by physicians, physician assistants and physical therapists. Case studies are utilized for development of clinical problem solving skills.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHY THER 665 – CLINICAL MEDICINE II**

4 credits.

Common pathological processes, risk factors, clinical manifestations, and pathogenesis of disease for the cardiovascular, pulmonary, hematology, neurology, gastrointestinal, urological, gynecological, musculoskeletal, and rheumatological systems. Medical tests and treatments including medications, diagnostic imaging, and pharmacology principles will also be covered.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**PHY THER 668 – HEALTH PROMOTION AND WELLNESS**

2 credits.

Physical, psychological, spiritual, social, emotional, intellectual and vocational aspects of wellness. The physical therapist's role in primary, secondary and tertiary prevention; health promotion, and individual and community screening activities for wellness/fitness; and safety and environmental considerations for health and wellness.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**PHY THER 675 – ORTHOTICS: APPLICATIONS IN PHYSICAL THERAPY PRACTICE**

2 credits.

Designed to provide the second year physical therapy student the cognitive, affective and psychomotor skills for efficacious examination/evaluation and treatment of patients with conditions requiring orthotic, protective and supportive devices. Specific orthotic topics include: material technology; biomechanics of orthoses; orthotic design and fabrication principles, lower limb orthoses (LLO); spinal orthoses (SO); upper limb orthoses (ULO); and wheelchair seating and propulsion. Provides the foundation for clinical applications in the musculoskeletal (Phy Ther 676/677) and neuromuscular clinical tracts (Phy Ther 635/636)

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**PHY THER 676 – MUSCULOSKELETAL DYSFUNCTION : EXAMINATION, DIAGNOSIS, & MANAGEMENT I**

5 credits.

Provides the physical therapy student with the cognitive, affective, and psychomotor knowledge for effective examination, evaluation, diagnosis and management of patients/clients of all ages with various musculoskeletal dysfunctions related specifically to the spine.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHY THER 677 – MUSCULOSKELETAL DYSFUNCTION : EXAMINATION, DIAGNOSIS, & MANAGEMENT II**

5 credits.

Provides the physical therapy student with the cognitive, affective, and psychomotor knowledge for effective examination, evaluation, diagnosis and management of patients/clients of all ages with various musculoskeletal dysfunctions related specifically to the extremities.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHY THER 678 – PHYSICAL THERAPY MANAGEMENT OF INTEGUMENT CONDITIONS**

1 credit.

This course is designed to provide the third year physical therapy student with the cognitive, affective and psychomotor skills for efficacious examination/evaluation and treatment of specific integument system conditions. Course topics include the management of patients/clients with wounds, burn, frostbite, insensate and/or diseased integument. Functional training in self-care and home management including activities of daily living (ADLs) and instrumental activities of daily living (IADLs), as well as functional training in work (job/school/play) are covered in the context of patients with specific integument conditions. In-depth study of the management of individuals with integument conditions (e.g. acute and chronic wounds, thermal injuries, vascular impairments, neuropathic conditions and surgical wounds). Specific wound topics include: infection control in the health care environment, classification of wounds, examination and physical therapy and medical management of persons with wounds. Specific burn topics include: epidemiology of thermal injuries (e.g. thermal, chemical and electrical burns and frostbite); classification of burn depth; determination of percentage burn; physiological effects of burn by body system; interdisciplinary medical management and physical therapy management for persons with burns/frostbite. Additional content will include integument screening and interdisciplinary management of integument conditions such as neoplasm, abrasion, laceration, and skin tears.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**PHY THER 679 – PROSTHETICS: APPLICATIONS IN PHYSICAL THERAPY PRACTICE**

1 credit.

This course is designed to provide the third year physical therapy student with the cognitive, affective and psychomotor skills for efficacious examination/evaluation and treatment of patients/clients with amputation. Course topics include the management of patients/clients with congenital and/or acquired amputation and its subsequent prosthetic management. Functional training in self-care and home management including activities of daily living (ADLs) and instrumental activities of daily living (IADLs), as well as functional training in work (job/school/play) are covered in the context of patients with limb loss.

**Requisites:** PHY THER 676 and PHY THER 677

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**PHY THER 700 – CLINICAL INTERNSHIP I**

2 credits.

80-hour physical therapy internship in a pre-determined clinical environment.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHY THER 701 – CLINICAL INTERNSHIP II**

4 credits.

160-hour physical therapy internship in a predetermined clinical environment.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**PHY THER 702 – CLINICAL INTERNSHIP III**

9 credits.

Nine-week physical therapy internship in a pre-determined clinical environment.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**PHY THER 703 – CLINICAL INTERNSHIP IV**

9 credits.

Nine-week physical therapy internship in a pre-determined clinical environment.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHY THER 704 – CLINICAL INTERNSHIP V**

4-9 credits.

Physical therapy internship in a pre-determined clinical environment.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, for 1 number of completions

**Last Taught:** Fall 2017

**PHY THER 705 – CLINICAL INTERNSHIP VI**

9 credits.

Nine-week physical therapy internship in a pre-determined clinical environment.

**Requisites:** Declared in Doctor of Physical Therapy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHY THER/NURSING/PHARMACY/PHY ASST/POP HLTH 758 – INTERPROFESSIONAL PUBLIC HEALTH LEADERSHIP**

1 credit.

Provides students with an opportunity to engage in collaboration, problem solving and teamwork in an interdisciplinary framework as they prepare an Interprofessional Case Competition (Fall) or as they prepare a collaborative case conference for the health professional students on campus (Spring). As students from different healthcare and public health backgrounds interact, learn together and share their experiences, they will become better prepared to lead and collaborate professionally in the future.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHY THER 799 – INDEPENDENT STUDY**

1-3 credits.

Course content is designed specifically for the individual student.

**Requisites:** DPT st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## PHYSICIAN ASSISTANT PROGRAM (PHY ASST)

**PHY ASST 348 – THEORIES AND PRACTICE IN EMERGENCY CARE**

1 credit.

Knowledge, attitudes and skills needed to evaluate and initiate care for acutely ill and/or injured persons.

**Requisites:** Jr st in the Physician Assistant program or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**PHY ASST 402 – PEDIATRICS FOR PHYSICIAN ASSISTANTS I**

1 credit.

Introductory pediatrics course covering problems encountered in the general pediatric population and reinforcing basic primary care clinical principles. Weekly lectures complementing material presented in concurrent PA 400.

**Requisites:** Jr st, Phy Asst or cons inst

**Repeatable for Credit:** No

**Last Taught:** Summer 2010

**PHY ASST 403 – PEDIATRICS FOR PHYSICIAN ASSISTANTS II**

1 credit.

Continuation of PA 402.

**Requisites:** Jr st, Phy Asst or cons inst

**Repeatable for Credit:** No

**Last Taught:** Summer 2010

**PHY ASST 416 – ISSUES IN PROFESSIONAL PRACTICE FOR PHYSICIAN ASSISTANTS**

1 credit.

Introduction to issues related to the physician assistant profession. Emphasis on developing an understanding of health care systems and the role of the physician assistant.

**Requisites:** Jr st in the Phy Asst Program

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**PHY ASST 421 – ADVANCED PATIENT EVALUATION IN THE PRIMARY CARE SETTING II**

2 credits.

Advanced physical examination and patient evaluation techniques; regional physical examinations; radiology; advanced evaluation of heart sounds.

**Requisites:** Phy Asst 420

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**PHY ASST 440 – LABORATORY MEDICINE FOR PHYSICIAN ASSISTANTS**

2 credits.

This course emphasizes the utilization of laboratory methods for the diagnosis and treatment of disease. The content focuses on those aspects pertinent to the provision of ambulatory, primary care.

**Requisites:** Jr st, Phy Asst or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**PHY ASST 516 – CONTEMPORARY PROFESSIONAL ISSUES - PHYSICIAN ASSISTANTS**

1 credit.

Information course for senior physician assistant students in areas of certification and registration, employment, economics, profession organizations and political/legislative topics.

**Requisites:** Sr st in the Phy Asst Program

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**PHY ASST 525 – SPECIAL TOPICS IN PRIMARY HEALTH CARE**

1-4 credits.

Variable content. Current topics, issues, and material related to the activities of the assistant to the primary care physician.

**Requisites:** None

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2011

**PHY ASST 550 – FUNDAMENTALS OF CLINICAL MEDICINE**

3 credits.

Introduces the student to information fundamental to understanding clinical medicine principles. Topics addressed include select areas of physiology-pathophysiology, pharmacology, laboratory medicine, and common systemic disease processes. There will also be instruction relative to cognitively approaching the patient.

**Requisites:** Declared in Physician Assistant program

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**PHY ASST 601 – CLINICAL MEDICINE I**

5 credits.

The first of a two course sequence instructing students about the knowledge and skills required to diagnose and treat patient health problems. Topics addressed include genomics, neurology, psychiatry, hematology/oncology, endocrinology, ophthalmology, otorhinolaryngology, and dermatology.

**Requisites:** Jr st, Physician Assistant majors or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHY ASST 602 – CLINICAL MEDICINE II**

6 credits.

The second of a two course sequence instructing students relative to the knowledge and skills required to diagnose and treat patient health problems. Topics addressed include cardiology, pulmonology, nephrology/urology, gastroenterology, rheumatology, geriatrics, and family medicine. Phy Asst major or Pharm D major

**Requisites:** Jr st.

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHY ASST 603 – PEDIATRICS**

2 credits.

Examines important aspects of primary care pediatrics including assessment of the child patient, preventive health, and pediatric diseases and conditions. The student will also learn examination techniques specific to the pediatric population.

**Requisites:** Admission to Physician Assistant program

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHY ASST 610 – CLINICAL PREVENTION AND COMMUNITY PRACTICE I**

1 credit.

The first of a two course sequence addressing the concepts of prevention and population health. Multiple topics will be explored including but not limited to: Health Information Literacy, Immunizations, Nutrition, Exercise, Communication and Counseling Skills, and Integrative Medicine.

**Requisites:** Admission to Physician Assistant program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHY ASST 611 – CLINICAL PREVENTION AND COMMUNITY PRACTICE II**

1 credit.

This is the second of a two course sequence addressing the concepts of prevention and population health and exploring the topics of: health systems/policy, and community aspects of practice. Case examples and community-oriented learning experiences will be incorporated into the course.

**Requisites:** Admission to Physician Assistant program

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**PHY ASST 616 – PROFESSIONAL SEMINAR I**

1 credit.

The first of a sequence of Professional Seminars occurring each semester throughout the course of the professional program. Emphasis will be placed on issues specific to the PA profession as well as introduction to the Capstone Project.

**Requisites:** Admission to Physician Assistant program**Repeatable for Credit:** No**Last Taught:** Summer 2017**PHY ASST 617 – PROFESSIONAL SEMINAR II**

1 credit.

Continuing the professional seminar series, this course emphasizes medical ethics as well as fundamental principles of evidence-based medicine. Research and statistical concepts are taught within the framework of epidemiologic study to develop skills in evaluating and interpreting the medical literature.

**Requisites:** Admission to Physician Assistant program**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHY ASST 618 – PROFESSIONAL SEMINAR III**

1 credit.

Continuing the professional seminar series, this course emphasizes an understanding of basic research methodology, project development, collaborative research, and project evaluation.

**Requisites:** Admission to Physician Assistant program and completion of antecedent summer and fall semesters**Repeatable for Credit:** No**Last Taught:** Spring 2017**PHY ASST 619 – HISTORY AND PHYSICAL EXAMINATION FOR PHYSICIAN ASSISTANTS**

4 credits.

Provides the primary care physician assistants with the knowledge and physical exam skills to evaluate patients in a variety of settings. Normal and pathological physical findings are discussed. Students master interview skills and physical exam skills applicable to all patients. Selected physical exam techniques are emphasized.

**Requisites:** PA-3 or PA-4 classification; or cons inst**Repeatable for Credit:** No**Last Taught:** Summer 2017**PHY ASST 620 – ADVANCED PATIENT EVALUATION I**

1 credit.

Advanced physical examination and patient evaluation techniques with an emphasis on the musculoskeletal system; selected physical exam procedures in the complete evaluation of patients; advanced medical interviewing skills.

**Requisites:** Phy Asst 419**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHY ASST 621 – ADVANCED PATIENT EVALUATION IN THE PRIMARY CARE SETTING II**

1 credit.

Instruction in advanced skills in history and physical examination including comprehensive patient history and physical examination, focused history with related male genitalia and rectal exams, and focused history with female breast and pelvic exams.

**Requisites:** Admission to Physician Assistant program**Repeatable for Credit:** No**Last Taught:** Spring 2017**PHY ASST 622 – FIELD EXPERIENCE IN PATIENT ASSESSMENT**

2 credits.

**Requisites:** Phy Asst 421**Repeatable for Credit:** No**Last Taught:** Summer 2011**PHY ASST 630 – WOMEN'S HEALTH FOR PHYSICIAN ASSISTANTS**

3 credits.

Provides Physician Assistant (PA) students a theoretical and clinical background for the assessment, diagnosis and management of problems in obstetrics and gynecology.

**Requisites:** Declared in Physician Assistant Program**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHY ASST 640 – CLINICAL PHARMACOLOGY I**

2 credits.

The first clinical pharmacology course will emphasize pharmacotherapeutics relative to disease processes of the neurologic, psychiatric, hematologic/oncologic, ophthalmologic, otolaryngologic, endocrinologic, and dermatologic systems. Antimicrobial and pain management principles will also be addressed.

**Requisites:** Admission to Physician Assistant program**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHY ASST 641 – CLINICAL PHARMACOLOGY II**

2 credits.

The second Clinical Pharmacology course will emphasize pharmacotherapeutics relative to disease processes of the cardiovascular, pulmonary, renal, urologic, gastrointestinal, and rheumatologic systems. Other topics addressed include geriatric pharmacology, pharmacoeconomics, complementary and alternative medicines, and treatment of sexually transmitted infections.

**Requisites:** Admission to Physicians Assistant Program**Repeatable for Credit:** No**Last Taught:** Spring 2017**PHY ASST 648 – EMERGENCY MEDICINE**

2 credits.

Fundamental concepts related to the provision of emergency medical care and urgent ambulatory care.

**Requisites:** PA classification or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2017



**PHY ASST 650 – DIAGNOSTIC METHODS I**

2 credits.

Primary focus is laboratory medicine assessments and ECG interpretation with additional content in imaging modalities, utilization of survey tools, screening assessments, as well as selected specialized examination techniques.

**Requisites:** Declared in Physician Assistant program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHY ASST 651 – DIAGNOSTIC METHODS II**

3 credits.

Primary focus is laboratory medicine assessments, heart sounds interpretation, and imaging modalities.

**Requisites:** Admission to Physician Assistant program

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHY ASST 660 – CLINICAL SKILLS LABORATORY**

1 credit.

This course will be taught as a hands-on clinical skill laboratory to include: dermatologic procedures, splinting, casting, suturing, IV access, venipuncture, injections, joint aspiration/injection, and advanced cardiac life support (ACLS).

**Requisites:** Admission to the Physician Assistant program

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHY ASST 670 – FUNDAMENTALS OF SURGERY**

1 credit.

An introduction to the role of the physician assistant in surgery, fundamental principles of pre-, intra- and post-operative surgical care, operating room aseptic technique, and common strategies to avoid and to treat surgical complications.

**Requisites:** PA 400, PA 401

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**PHY ASST 699 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**PHY ASST 700 – RURAL HEALTH FOR PHYSICIAN ASSISTANTS**

1 credit.

Realizing the rural healthcare shortage, this course emphasizes an understanding of healthcare issues unique to rural populations with the intent to attract Physician Assistants to work in these underserved areas.

**Requisites:** Admission to Physician Assistant program and completion of antecedent summer, fall and spring semesters

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2015

**PHY ASST 716 – PROFESSIONAL SEMINAR IV**

1 credit.

Emphasis will be on placed on refining the capstone project and writing an initial paper draft. The course will also include instructional content on professional issues in preparation for clinical experiences and clinical practice.

**Requisites:** Admission to Physician Assistant program and completion of antecedent summer, fall and spring semesters

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**PHY ASST 717 – PROFESSIONAL SEMINAR AND CAPSTONE I**

1 credit.

Emphasis will be placed on completion of capstone projects with preparations for oral and poster presentation of the projects. Also includes instructional content on professional issues in preparation for certification and clinical practice.

**Requisites:** Admission to Physician Assistant program and completion of antecedent semesters

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHY ASST 718 – PROFESSIONAL SEMINAR AND CAPSTONE II**

1 credit.

Emphasis will be placed on preparing poster and lecture presentation for completed capstone projects. Also includes instructional content on professional issues in preparation for certification and clinical practice.

**Requisites:** Phys Asst 717

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHY ASST 729 – PHYSICIAN ASSISTANT PRECEPTORSHIP: SURGERY**

8 credits.

A 2 month intensive clinical learning experience with an emphasis in surgery and taking place in a variety of off-campus clinical settings under the direction of a supervising physician preceptor.

**Requisites:** Successful completion of the didactic year PA training, with promotion to the clinical year

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHY ASST 739 – PHYSICIAN ASSISTANT PRECEPTORSHIP: FAMILY MEDICINE**

8 credits.

A 2 month intensive clinical learning experience with an emphasis in family medicine and taking place in a variety of off-campus clinical settings under the direction of a supervising physician preceptor.

**Requisites:** Successful completion of the didactic year PA training, with promotion to the clinical year

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHY ASST 749 – PHYSICIAN ASSISTANT PRECEPTORSHIP: INTERNAL MEDICINE**

8 credits.

A 2 month intensive clinical learning experience with an emphasis in internal medicine and taking place in a variety of off-campus clinical settings under the direction of a supervising physician preceptor.

**Requisites:** Successful completion of the didactic year PA training, with promotion to the clinical year

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHY ASST/NURSING/PHARMACY/PHY THER/POP HLTH 758 – INTERPROFESSIONAL PUBLIC HEALTH LEADERSHIP**

1 credit.

Provides students with an opportunity to engage in collaboration, problem solving and teamwork in an interdisciplinary framework as they prepare an Interprofessional Case Competition (Fall) or as they prepare a collaborative case conference for the health professional students on campus (Spring). As students from different healthcare and public health backgrounds interact, learn together and share their experiences, they will become better prepared to lead and collaborate professionally in the future.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHY ASST 759 – PHYSICIAN ASSISTANT PRECEPTORSHIP: EMERGENCY MEDICINE**

8 credits.

A 2 month intensive clinical learning experience with an emphasis in emergency medicine and taking place in a variety of off-campus clinical settings under the direction of a supervising physician preceptor.

**Requisites:** Successful completion of the didactic year PA training, with promotion to the clinical year

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHY ASST 769 – PHYSICIAN ASSISTANT PRECEPTORSHIP: ELECTIVE**

8 credits.

A 2 month intensive clinical learning experience with an emphasis in an elective specialty discipline and taking place in a variety of off-campus clinical settings under the direction of a supervising physician preceptor. Elective specialty disciplines include but are not limited to family medicine, internal medicine, emergency medicine, general surgery, cardiothoracic surgery, orthopedic surgery, ENT, dermatology, pediatrics, women's health and psychiatry/behavioral health.

**Requisites:** Successful completion of the didactic year physician assistant training, with promotion to the clinical year training.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHY ASST 787 – SEMINAR ON INTEGRATING PUBLIC HEALTH INTO PA PRACTICE**

1 credit.

This course is a requirement for students in the PA Path of Distinction (PoD). The purpose of the Seminar is to provide direction to Physician Assistant (PA) PoD students for the PoD capstone project and to provide an overview of public health, some of its current issues and tools to help become engaged in the communities in which clinical experiences and practice takes place.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHYSICS (PHYSICS)****PHYSICS 103 – GENERAL PHYSICS**

4 credits.

Introduction at the non-calculus level. Not recommended for students in the physical sciences and engineering. Principles of mechanics, heat, and sound, with applications to a number of different fields. Two lectures, two discussions, plus one two-hour lab per week. High school algebra, geometry and some trig; Not open to those who have taken PHYSICS 201, 207, or 247; Open to Freshman. Recommended for students who do not need a calculus level course; Not recommended for students in the physical sciences and engineering

**Requisites:** Completion of QR-A.

**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Physical Sci. Counts toward the Natural Sci req Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHYSICS 104 – GENERAL PHYSICS**

4 credits.

Continuation of PHYSICS 103. Principles of electricity and magnetism, light, optics, and modern physics, with applications to a number of different fields. Two lectures, two discussions and one two-hour lab per week. Not open to those who have taken PHYSICS 202, 208, or 248; Open to Freshman

**Requisites:** PHYSICS 103.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSICS 107 – THE IDEAS OF MODERN PHYSICS**

3 credits.

For non-science majors. The twentieth century physical world picture and its origins. Selected topics in classical physics: relativity, and the quantum theory with emphasis on the meaning of basic concepts and their broader implications rather than practical applications. Three lectures per week. High school algebra geometry. Not open to students who have taken an intermediate or advanced level physics course. Open to Freshmen

**Requisites:** Completion of QR-A.**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSICS 109 – PHYSICS IN THE ARTS**

3 credits.

A course on sound and light for non-science majors. The nature of sound and sound perception; fundamentals of harmony, musical scales, and musical instruments. Studies of light including lenses, photography, color perception, and color mixing. Two lectures and one two-hour lab per week. High school algebra geometry. Not open to students who have had an intermediate or advanced level physics course, including PHYSICS 371. Open to Freshmen

**Requisites:** Completion of QR-A.**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSICS 115 – ENERGY**

3 credits.

A one-semester introduction, focusing on a central concept: energy, energy sources, and the environment. Gives students the necessary physics background to form opinions on energy questions. The physical laws of thermodynamics, electricity, and magnetism, and nuclear physics in connection with energy related topics such as: thermal pollution, fossil power, fission and fusion, nuclear power, and solar power. Two lectures and one discussion per week. High school algebra and geometry. Not open to students who have taken PHYSICS 103, 201, 207, or 247

**Requisites:** Completion of QR-A.**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSICS 198 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2006**PHYSICS 199 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**PHYSICS 201 – GENERAL PHYSICS**

5 credits.

Primarily for engineering students. Mechanics and heat. Two lectures, two discussions and one three-hour lab per week. Not open to students who have taken PHYSICS 207 or 247; Open to Freshmen

**Requisites:** MATH 211 or 221 or 1 year high school calculus or instructor consent.**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**PHYSICS 202 – GENERAL PHYSICS**

5 credits.

Primarily for engineering students. Electricity, magnetism, light, and sound. Two lectures, two discussions and one three-hour lab per week. Not open to students who have taken PHYSICS 208 or 248

**Requisites:** PHYSICS 201, 207, or EMA 201 and EMA 202, or EMA 201 and ME 240, or equivalent.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHYSICS 205 – MODERN PHYSICS FOR ENGINEERS**

3 credits.

Introduction to atomic, solid state, and nuclear physics. Not open to students who have taken PHYSICS 241, 244, or 249

**Requisites:** Physcis 202, 208 or 248.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHYSICS 206 – SPECIAL TOPICS IN PHYSICS**

1-5 credits.

Special topics in physics at the intermediate undergraduate level.

**Requisites:** Prereqs vary according to topic

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**PHYSICS 207 – GENERAL PHYSICS**

5 credits.

Recommended for those majoring in science or mathematics. Also suitable for others who have the math prerequisite. Mechanics, heat and sound. Two lectures, two discussions and one three-hour lab per week. Not open to students who have taken PHYSICS 201 or 247; Open to Freshmen

**Requisites:** MATH 221 or 211 or 1 year high school calculus or instructor consent.

**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHYSICS 208 – GENERAL PHYSICS**

5 credits.

Continuation of PHYSICS 207. Electricity, magnetism, light, and modern physics. Two lectures, two discussions and one three-hour lab per week. Not open to students who have taken PHYSICS 202 or 248; Open to Freshmen

**Requisites:** PHYSICS 201, 207, or 247.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHYSICS/E C E 235 – INTRODUCTION TO SOLID STATE ELECTRONICS**

3 credits.

An introduction to the physical principles underlying solid-state electronic and photonic devices, including elements of quantum mechanics, crystal structure, semiconductor band theory, carrier statistics, and band diagrams. Offers examples of modern semiconductor structures.

MATH 222 PHYSICS 202

**Requisites:** Open to Fr.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHYSICS 241 – INTRODUCTION TO MODERN PHYSICS**

3 credits.

Kinetic theory; relativity; experimental origin of quantum theory; atomic structure and spectral lines; topics in solid state, nuclear and particle physics. Experiments for this course are covered in PHYSICS 307. Not open to students who have taken PHYSICS 205, 244, or 249

**Requisites:** PHYSICS 202 or 208 or 248 MATH 222.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHYSICS 244 – MODERN PHYSICS (PRIMARILY FOR ECE MAJORS)**

3 credits.

Quantum mechanics, atomic structure of matter, physical properties of solids, nuclear physics; emphasis on fundamental concepts to aid the student in engineering applications. Not open to students who have taken PHYSICS 205, 241, or 249

**Requisites:** PHYSICS 202 or 208 or 247 MATH 234 or concurrent registration.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**PHYSICS 247 – A MODERN INTRODUCTION TO PHYSICS**

5 credits.

Introduction to physics recommended for students who are considering majoring in physics, astronomy-physics, or AMEP. Also suitable for those majoring in other sciences or mathematics who desire a rigorous physics course. Mechanics, relativity, cosmology. Three lectures, one discussion, and one three-hour lab per week. Intended primarily for physics, AMEP, astronomy-physics majors; Also suitable for those majoring in science or mathematics

**Requisites:** MATH 222 or concurrent registration or instructor consent; Open to Freshmen.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHYSICS 248 – A MODERN INTRODUCTION TO PHYSICS**

5 credits.

Continuation of PHYSICS 247. Electricity, magnetism, and topics from thermodynamics, radiation, plasma physics, and statistical mechanics. Three lectures, one discussion, and one three-hour lab per week. Intended primarily for physics, AMEP, and astronomy-physics majors

**Requisites:** PHYSICS 247, MATH 234 or concurrent enrollment; Open to Freshmen.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHYSICS 249 – A MODERN INTRODUCTION TO PHYSICS**

4 credits.

Continuation of PHYSICS 248. Modern physics: introduction to quantum mechanics, topics from nuclear and particle physics, condensed matter physics, and atomic physics. Three lectures and one discussion per week. Not open to students who have taken PHYSICS 241; Open to Freshmen. Intended primarily for physics, AMEP, astronomy-physics majors

**Requisites:** PHYSICS 248 MATH 234, or consent of instructor; concurrent registration in PHYSICS 307 required.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHYSICS/MED PHYS 265 – INTRODUCTION TO MEDICAL PHYSICS**

2 credits.

Primarily for premeds and other students in the medical and biological sciences. Applications of physics to medicine and medical instrumentation. Topics: biomechanics, sound and hearing, pressure and motion of fluids, heat and temperature, electricity and magnetism in the body, optics and the eye, biological effects of light, use of ionizing radiation in diagnosis and therapy, radiation safety, medical instrumentation. Two lectures with demonstrations per week.

**Requisites:** A yr crse of college level intro physics

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHYSICS 298 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Intro physics and cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHYSICS 299 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Intro physics and cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHYSICS 301 – PHYSICS TODAY**

1 credit.

A series of weekly presentations and discussions of current research topics in physics, by scientists directly involved in those studies. Provides undergraduates with access to the topics and excitement of the research frontier in a manner not possible in normal subject courses.

**Requisites:** PHYSICS 208 or equiv

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**PHYSICS 307 – INTERMEDIATE LABORATORY-MECHANICS AND MODERN PHYSICS**

2 credits.

Experiments in mechanics and modern physics, mainly associated with the subject matter of PHYSICS 241 and 311. PHYSICS 205, 241, or 244 or con reg recommended

**Requisites:** PHYSICS 202 or 208.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**PHYSICS 308 – INTERMEDIATE LABORATORY-ELECTROMAGNETIC FIELDS AND OPTICS**

2 credits.

Experiments in electromagnetic fields and optics, mainly associated with the subject matter of PHYSICS 322 and 325. Enroll info: Prior completion of or concurrent registration in PHYSICS 322 and 325 recommended. Prior completion of PHYSICS 205, 241, 244, 247, or 249 recommended.

**Requisites:** PHYSICS 202, 208, or 248**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**PHYSICS 311 – MECHANICS**

3 credits.

Origin and development of classical mechanics; mathematical techniques, especially vector analysis; conservation laws and their relation to symmetry principles; brief introduction to orbit theory and rigid-body dynamics; accelerated coordinate systems; introduction to the generalized-coordinate formalisms of Lagrange and Hamilton.

**Requisites:** PHYSICS 202 or 208, MATH 320 or 319 or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSICS 321 – ELECTRIC CIRCUITS AND ELECTRONICS**

4 credits.

Direct current circuits, circuit theorems, alternating current circuits, transients, non-sinusoidal sources, Fourier analysis, characteristics of semiconductor devices, typical electronic circuits, feedback, non-linear circuits; digital and logic circuits; three lectures and one three-hour lab per week.

**Requisites:** PHYSICS 202 or 208, MATH 320 or 319 or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSICS 322 – ELECTROMAGNETIC FIELDS**

3 credits.

Electrostatic fields, capacitance, multi-pole expansion, dielectric theory; magnetostatics; electromagnetic induction; magnetic properties of matter; Maxwell's equations and electromagnetic waves; relativity and electromagnetism. Experiments for this course are covered in PHYSICS 308.

**Requisites:** PHYSICS 311**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSICS 325 – WAVE MOTION AND OPTICS**

3 credits.

Wave phenomena with specific applications to waves in media and electromagnetic phenomena. Wave equations, propagation, radiation, coherence, interference, diffraction, scattering. Light and its interactions with matter, geometrical and physical optics. Experiments for this course are covered in PHYSICS 308. PHYSICS 322 or concurrent enrollment recommended

**Requisites:** PHYSICS 205, 241, or 244, and PHYSICS 311.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**PHYSICS 371 – ACOUSTICS FOR MUSICIANS**

3 credits.

Intended for music students who wish to learn about physical basis of sound, sound perception, musical scales, musical instruments, and room acoustics. May not be taken by Physics majors to count as physics credit. Intended primarily for musicians and others with some music background

**Requisites:** Completion of QR-A, High school algebra.**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSICS 406 – SPECIAL TOPICS IN PHYSICS**

1-4 credits.

Special topics in physics at the advanced undergraduate level.

**Requisites:** PHYSICS 241 or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PHYSICS 407 – ADVANCED LABORATORY**

2-4 credits.

Advanced experiments in classical and modern physics, many associated with the subject matter of PHYSICS 415, 448, 449. Possible experiments include beta decay, muon lifetime, nuclear magnetic resonance, Stern-Gerlach atomic beam, Mossbauer scattering, velocity of light, Zeeman effect, and Compton scattering. Techniques for the statistical analysis of experimental data are emphasized. One (two) credit students will typically perform 4 (8) experiments.

**Requisites:** Must have taken PHYSICS 307 or 308.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017



**PHYSICS 415 – THERMAL PHYSICS**

3 credits.

Thermodynamics, kinetic theory of gases, and statistical mechanics.

**Requisites:** PHYSICS 241, 244, or 205 311**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSICS 448 – ATOMIC AND QUANTUM PHYSICS**

3 credits.

First semester of a two-semester senior course. Review of atomic and other quantum phenomena and special relativity; introduction to quantum mechanics treating the more advanced topics of atomic physics and applications to molecular, solid state, nuclear, and elementary particle physics and quantum statistics. Experiments underlying this course are covered in PHYSICS 407. Not open to those who have had PHYSICS 531

**Requisites:** PHYSICS 205, 241, or 244, and PHYSICS 311 and 322.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSICS 449 – ATOMIC AND QUANTUM PHYSICS**

3 credits.

A continuation of 448.

**Requisites:** PHYSICS 448**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**PHYSICS/ENVIR ST 472 – SCIENTIFIC BACKGROUND TO GLOBAL ENVIRONMENTAL PROBLEMS**

3 credits.

A one-semester course designed to provide those elements of physics, atmospheric sciences, chemistry, biology and geology which are essential to a scientific understanding of global environmental problems. Specific examples of such problems include global warming, stratospheric ozone depletion, acid rain and environmental toxins. Three lectures per week.

**Requisites:** PHYSICS 103, 201, 207, or 247 or CHEM 103, 108, 109, 115, or 116**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**PHYSICS 498 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PHYSICS 499 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PHYSICS/B M E/H ONCOL/MED PHYS 501 – RADIOLOGICAL PHYSICS AND DOSIMETRY**

3 credits.

Interactions and energy deposition by ionizing radiation in matter; concepts, quantities and units in radiological physics; principles and methods of radiation dosimetry.

**Requisites:** Calculus and modern physics**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSICS 507 – GRADUATE LABORATORY**

2 credits.

Students perform typically advanced modern physics experiments and utilize advanced statistical techniques for data analysis. Scientific writing is emphasized and one scientific paper is required.

**Requisites:** Must have taken PHYSICS 307 or 407.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**PHYSICS/E C E/N E 525 – INTRODUCTION TO PLASMAS**

3 credits.

Basic description of plasmas: collective phenomena and sheaths, collisional processes, single particle motions, fluid models, equilibria, waves, electromagnetic properties, instabilities, and introduction to kinetic theory and nonlinear processes. Examples from fusion, astrophysical and materials processing plasmas.

**Requisites:** One crse in electromagnetic fields beyond elem physics**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**PHYSICS/E C E/N E 527 – PLASMA CONFINEMENT AND HEATING**

3 credits.

Principles of magnetic confinement and heating of plasmas for controlled thermonuclear fusion: magnetic field structures, single particle orbits, equilibrium, stability, collisions, transport, heating, modeling and diagnostics. Discussion of current leading confinement concepts: tokamaks, tandem mirrors, stellarators, reversed field pinches, etc.

**Requisites:** NEEP/Phys/ECE 525 or equiv**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**PHYSICS 531 – INTRODUCTION TO QUANTUM MECHANICS**

3 credits.

Historical background and experimental basis, de Broglie waves, correspondence principle, uncertainty principle, Schrodinger equation, hydrogen atom, electron spin, Pauli principle; applications of wave mechanics. Not open to those who have had PHYSICS 448

**Requisites:** PHYSICS 311 322 a course in modern physics, or equiv, or cons inst.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**PHYSICS 535 – INTRODUCTION TO PARTICLE PHYSICS**

3 credits.

Introduction to particles, antiparticles and fundamental interactions; detectors and accelerators; symmetries and conservation laws; electroweak and color interactions of quarks and leptons; unification theories.

**Requisites:** PHYSICS 531 or equiv**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**PHYSICS 545 – INTRODUCTION TO ATOMIC STRUCTURE**

3 credits.

Nuclear atom; hydrogen atom; Bohr-Sommerfeld model, wave model, electron spin, description of quantum electron spin, description of quantum electrodynamic effects; external fields; many-electron atoms; central field, Pauli principle, multiplets, periodic table, x-ray spectra, vector coupling, systematics of ground states; nuclear effects in atomic spectra.

**Requisites:** A course in quantum mechanics or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSICS/E C E 546 – LASERS**

2-3 credits.

General principles of laser operation; laser oscillation conditions; optical resonators; methods of pumping lasers, gas discharge lasers, e-beam pumped lasers, solid state lasers, chemical lasers, and dye lasers; gain measurements with lasers; applications of lasers.

**Requisites:** PHYSICS 322 or ECE 420 or equiv; PHYSICS 545, or 449 or 531**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**PHYSICS 551 – SOLID STATE PHYSICS**

3 credits.

Mechanical, thermal, electric, and magnetic properties of solids; band theory; semiconductors; crystal imperfections.

**Requisites:** A course in quantum mechanics or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSICS/MED PHYS 563 – RADIONUCLIDES IN MEDICINE AND BIOLOGY**

2-3 credits.

Physical principles of radioisotopes used in medicine and biology and operation of related equipment; lecture and lab.

**Requisites:** PHYSICS 205, PHYSICS 241, or PHYSICS 249, or Graduate Standing**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSICS 601 – SCIENTIFIC PRESENTATION**

2 credits.

Oral and written reports to give practice in the presentation of scientific papers.

**Requisites:** Grad st or Sr st in the Honors program or cons inst**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Accelerated Honors (!)

**Repeatable for Credit:** No**Last Taught:** Fall 2016

**PHYSICS 603 – WORKSHOP IN COLLEGE PHYSICS TEACHING**

1-2 credits.

**Requisites:** At least 9 cr in intmed physics**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**PHYSICS/B M E/MED PHYS/PHMCOL-M/RADIOL 619 – MICROSCOPY OF LIFE**

3 credits.

Survey of state of the art microscopic, cellular and molecular imaging techniques, beginning with subcellular microscopy and finishing with whole animal imaging.

**Requisites:** PHYSICS 104, 202, 208, or 248 or MED PHYS/PHYSICS/MED PHYS 265**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSICS 623 – ELECTRONIC AIDS TO MEASUREMENT**

4 credits.

Fundamentals of electronics, electronic elements, basic circuits; combinations of these into measuring instruments. Three lectures and one three-hour lab per week.

**Requisites:** Undergraduates who have 3 semesters of calculus level physics may enroll with consent of instructor**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSICS 625 – APPLIED OPTICS**

4 credits.

Optical methods in research and technology. Reflection, refraction, absorption, scattering. Imaging. Sources and sensors. Schlieren methods. Interferometry. Instrumental spectroscopy. Fourier optics, image processing, holography. Laser technology, Gaussian beams, nonlinear optics. Sr or Grad st or cons inst

**Requisites:** Three semesters of calculus level physics or equiv.**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**PHYSICS 681 – SENIOR HONORS THESIS**

3 credits.

Note that no credit for physics 681 will be received until successful completion of 682. Must be taken as a sequence with 682.

**Requisites:** Consent of instructor.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PHYSICS 682 – SENIOR HONORS THESIS**

3 credits.

Must be taken as a sequence following 681

**Requisites:** Consent of instructor.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**PHYSICS 691 – SENIOR THESIS**

2-3 credits.

Note that no credit for PHYSICS 691 will be received until successful completion of 692. Must be taken as a sequence with 692

**Requisites:** Consent of instructor.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PHYSICS 692 – SENIOR THESIS**

2-3 credits.

Must be taken as a sequence following 691

**Requisites:** Consent of instructor.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**PHYSICS 711 – THEORETICAL PHYSICS-DYNAMICS**

3 credits.

Lagrange's equations, Principle of Least Action, orbits and scattering, kinematics of rotation, rigid body dynamics, small oscillations, special relativistic dynamics, Hamiltonian formulation, canonical transformations, Hamilton-Jacobi theory, chaos, continuum mechanics, introduction to general relativity.

**Requisites:** PHYSICS 311 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**PHYSICS 715 – STATISTICAL MECHANICS**

3 credits.

Statistical foundations, Liouville's theorem, ensembles, classical and quantum distribution functions, entropy and temperature, connection with thermodynamics, partition functions, quantum gases, non-ideal gases, phase transitions and critical phenomena, non-equilibrium problems, Boltzmann equation and the H-theorem, transport properties, applications of statistical mechanics to selected problems.

**Requisites:** PHYSICS 711, 531 415, or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**PHYSICS 716 – STATISTICAL MECHANICS II**

3 credits.

Symmetries and symmetry breaking, phase transitions, mean field theory, critical exponents, scaling hypothesis, renormalization group, diagrammatic expansion, epsilon-expansion, exact solution of the 2d Ising model. Boltzmann kinetic equation, H-theorem, Fokker-Planck and Langevin equations, Born-Markov master equation, Lindblad superoperators, classical and quantum noise, theory of amplifiers.

**Requisites:** PHYSICS 715, PHYSICS 731, and PHYSICS 732**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSICS 717 – RELATIVITY**

3 credits.

Special and general theories of relativity, relativistic electrodynamics, cosmology, unified field theories.

**Requisites:** PHYSICS 721**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**PHYSICS 721 – THEORETICAL PHYSICS-ELECTRODYNAMICS**

3 credits.

Electrostatics, magnetostatics, Green functions, boundary value problems, macroscopic media, Maxwell's equations, the stress tensor and conservation laws, electromagnetic waves, wave propagation, dispersion, waveguides, radiation, multipole expansions, diffraction and scattering, special relativity, covariance of Maxwell's equations, Lienard-Wiechert potentials, radiation by accelerated charges.

**Requisites:** PHYSICS 322 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSICS/E C E/N E 724 – WAVES AND INSTABILITIES IN PLASMAS**

3 credits.

Waves in a cold plasma, wave-plasma interactions, waves in a hot plasma, Landau damping, cyclotron damping, magneto-hydrodynamic equilibria and instabilities, microinstabilities, introduction to nonlinear processes, and experimental applications.

**Requisites:** NEEP/ECE/PHYSICS/E C E/N E 525 PHYSICS 721 or ECE 740 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSICS/E C E/N E 725 – PLASMA KINETIC THEORY AND RADIATION PROCESSES**

3 credits.

Coulomb Collisions, Boltzmann equation, Fokker-Planck methods, dynamical friction, neoclassical diffusion, collision operators radiation processes and experimental applications.

**Requisites:** Physics, ECE, NEEP 525 PHYSICS 721 or ECE 740 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**PHYSICS/E C E/N E 726 – PLASMA MAGNETOHYDRODYNAMICS**

3 credits.

MHD equations and validity in hot plasmas; magnetic structure and magnetic flux coordinates; equilibrium in various configurations; stability formulation, energy principle, classification of instabilities; ideal and resistive instability in various configurations, evolution of nonlinear tearing modes; force-free equilibria, helicity, MHD dynamo; experimental applications.

**Requisites:** NEEP/ECE/PHYSICS/E C E/N E 525 PHYSICS 721 or ECE 740 or cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**PHYSICS 731 – QUANTUM MECHANICS**

3 credits.

Schrodinger equation, operator theory, matrix mechanics, transformation theory, Heisenberg representation, orbital angular momentum, bound-state problems, scattering theory, stationary perturbation theory, degenerate systems, time-dependent perturbation theory, Born approximation, other approximation methods.

**Requisites:** PHYSICS 449 or 531, or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**PHYSICS 732 – QUANTUM MECHANICS**

3 credits.

Interaction of electromagnetic radiation with matter, quantization of the electromagnetic field, spontaneous transitions, identical particles and spin, addition of angular momenta, tensor operators, complex atoms, Hartree approximation, molecules, Dirac equation, relativistic effects in atoms.

**Requisites:** PHYSICS 721 731**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**PHYSICS 735 – PARTICLE PHYSICS**

3 credits.

Structure of elementary particles, quarks and gluons, introduction to calculational techniques of particle interactions (Feynman diagrams), constituent models of electroweak and strong interactions and associated phenomenological techniques.

**Requisites:** PHYSICS 535, 731 or equiv or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSICS 736 – EXPERIMENTAL METHODS IN NUCLEAR-, PARTICLE-, AND ASTROPHYSICS**

3 credits.

Interaction of particles with matter; detector techniques at colliding beam machines, in nuclear and particle physics, astrophysics, and cosmology; experimental strategies in detector design; principles of simulation and Monte Carlo methods, error analysis and statistical techniques in data analysis.

**Requisites:** PHYSICS 535 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**PHYSICS 741 – EXPERIMENTAL NUCLEAR PHYSICS**

3 credits.

Basic properties of nuclei, nuclear forces and energetics; scattering, reaction, radioactivity; nuclear radiations, their interactions with matter and detection.

**Requisites:** PHYSICS 531 or 449**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2008**PHYSICS/E C E 746 – QUANTUM ELECTRONICS**

3 credits.

Elementary aspects of Lagrange theory of fields and field quantization; Bose, Fermi and Pauli operators; interaction of fields; quantum theory of damping and fluctuations; applications to lasers, nonlinear optics, and quantum optics.

**Requisites:** ECE-PHYSICS/E C E 546; PHYSICS 721 or ECE 740**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2011**PHYSICS/E C E 748 – LINEAR WAVES**

3 credits.

General considerations of linear wave phenomena; one dimensional waves; two and three dimensional waves; wave equations with constant coefficients; inhomogenous media; random media. Lagrangian and Hamiltonian formulations; asymptotic methods.

**Requisites:** ECE 440 or PHYSICS 322 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSICS/E C E/N E 749 – COHERENT GENERATION AND PARTICLE BEAMS**

3 credits.

Fundamental theory and recent advances in coherent radiation charged particle beam sources (microwave to X-ray wavelengths) including free electron lasers, wiggler/wave-particle dynamics, Cerenkov masers, gyrotrons, coherent gain and efficiency, spontaneous emission, beam sources and quality, related accelerator concepts experimental results and applications.

**Requisites:** ECE 740 or PHYSICS 721, or equiv, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**PHYSICS 751 – ADVANCED SOLID STATE PHYSICS**

3 credits.

Lattice dynamics; band theory; Fermi surfaces; electrodynamics of metals; optical properties; transport properties.

**Requisites:** PHYSICS 731 and 551 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**PHYSICS 752 – MANY-BODY PROBLEMS IN SOLID STATE PHYSICS**

3 credits.

Introduction to many-body problems in solids: phonons, magnons, homogeneous electron gas, superconductivity, disordered systems.

**Requisites:** PHYSICS 731**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2011



**PHYSICS 772 – HIGH ENERGY ASTROPHYSICS**

3 credits.

Interactions among the particles, fields, and radiation of interstellar and intergalactic space. Gamma-ray, x-ray, and cosmic ray production, propagation, and detection.

**Requisites:** PHYSICS 721 or 322, basic knowledge of spec relativity, basic diff equations, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**PHYSICS/B M E/MED PHYS 775 – ADVANCED ULTRASOUND PHYSICS**

3 credits.

Foundations of acoustic wave equations, diffraction phenomena and acoustic beam formation, models for acoustic scattering from discrete structures and inhomogeneous continua, speckle statistics including speckle correlation, applications of these topics in medical imaging.

**Requisites:** Med Phys 575, PHYSICS 311, 322, 325, MATH 234, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**PHYSICS 799 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**PHYSICS 801 – SPECIAL TOPICS IN THEORETICAL PHYSICS**

1-3 credits.

Can be repeated for credit.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHYSICS 805 – SPECIAL TOPICS IN PHYSICS**

1-3 credits.

Can be repeated for credit.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHYSICS 831 – ADVANCED QUANTUM MECHANICS**

3 credits.

Quantum theory of free and interacting fields, formal scattering theory, dispersion theory.

**Requisites:** PHYSICS 732

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHYSICS 832 – ADVANCED QUANTUM MECHANICS**

3 credits.

Continuation of 831.

**Requisites:** PHYSICS 831

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHYSICS 833 – ADVANCED MATH IN QUANTUM FIELD THEORY**

3 credits.

The use in physics, most specifically nonabelian gauge field theory, of differential forms, homology, cohomology, homotopy, index theorems, fiber bundles, parallel transport, connections, curvature, characteristic classes, moduli space, Morse theory, and assorted other mathematics, is motivated, developed, and illustrated.

**Requisites:** PHYSICS 731, 732 831; or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**PHYSICS 835 – COLLIDER PHYSICS PHENOMENOLOGY**

2-3 credits.

Standard gauge model. Applications to e+e-, proton-antiproton, pp, and ep colliders. Jets. Weak boson, heavy-quark, and Higgs boson production and decay. Neutrino counting. Neutral B meson mixing. Quarkonia. Supersymmetry. Fourth generation.

**Requisites:** Phys 735 or equiv or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHYSICS/E C E 848 – NONLINEAR WAVES**

3 credits.

General considerations of nonlinear wave phenomena; nonlinear hyperbolic waves; nonlinear dispersion; nonlinear geometrical optics; Whitham's variational theory; nonlinear and parametric instabilities; solitary waves; inverse scattering method.

**Requisites:** ECE 748 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016



**PHYSICS 900 – COLLOQUIUM**

1 credit.

Lectures by staff and visitors.

**Requisites:** Cons inst if taken for 1 cr**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2013**PHYSICS 903 – SEMINAR-THEORETICAL PHYSICS**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2009**PHYSICS/ASTRON 910 – SEMINAR IN ASTROPHYSICS**

1 credit.

Current topics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PHYSICS/E C E/N E 922 – SEMINAR IN PLASMA PHYSICS**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PHYSICS 951 – SEMINAR-SOLID STATE PHYSICS**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012**PHYSICS 990 – RESEARCH**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PHYSIOLOGY (PHYSIOL)****PHYSIOL 335 – PHYSIOLOGY**

5 credits.

Lectures, recitations, demonstrations, and labs. Not open to Fr

**Requisites:** Biol or zool gen chem before enroll.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PHYSIOL 435 – FUNDAMENTALS OF HUMAN PHYSIOLOGY**

5 credits.

An advanced human physiology course that explores the major organ systems. The main learning objective is an understanding of the mechanisms through which homeostasis is integrated and maintained. The class includes weekly: three lectures, one discussion, and one inquiry-based laboratory period. Zoo 102, 151, 152, or Biocore 303/383 required. CHEM 103, 104, 109, or 115 required. PHYSICS 103, 104, 201, 202, 207, or 208 required.

**Requisites:** Junior standing or higher required.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**PHYSIOL/NTP/PSYCH/ZOOLOGY 524 – NEUROBIOLOGY II: AN INTRODUCTION TO THE BRAIN AND BEHAVIOR**  
3 credits.

An introduction to studies of the human nervous system covering neuroanatomy of the brain, neuronal coding, sensory and motor systems, biological rhythms, arousal, attention, physiological regulation, reward, aversion, learning and memory.

**Requisites:** Zool 523, equiv crse in physiol, or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016

**PHYSIOL 533 – MOLECULAR PHYSIOLOGY**

2 credits.

This course will introduce functional aspects of mammalian organ systems from a molecular perspective. Human diseases will receive a special emphasis, and diseases will be used to illustrate the connection between molecules and biological function. Recommended but not required: Biocore 323, biochem (e.g. BIOCHEM 507 508), cell biology (e.g. ZOOLOGY 570)

**Requisites:** CHEM 103 104 or 109 or 115 116; PHYSICS 201 202 or 207 208; ZOOLOGY/BIOLOGY/BOTANY 151 152 or Biocore 303 304; MATH 221 222 or 275 276.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**PHYSIOL/NTP/PHMCOL-M 610 – CELLULAR AND MOLECULAR NEUROSCIENCE**

4 credits.

Study of original papers leading to an understanding of the molecular basis of electrical activity in neurons. Topics include voltage-sensitive currents, molecular biology of neuronal receptors, synaptic transmission and sensory transduction. Lectures supplemented with experimental demonstrations and discussion sessions.

**Requisites:** Zoo 523 or equiv

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHYSIOL/ANATOMY/NTP/PHMCOL-M/PSYCH 611 – SYSTEMS NEUROSCIENCE**

4 credits.

Introduction to the anatomy and physiology of the mammalian nervous system. Lectures will cover the neuroanatomy of the major subdivisions of the human brain, the major sensory and motor systems, and higher order functions. Lab/discussion sections will emphasize readings from the primary literature and hands-on dissections.

**Requisites:** PHYSIOL/NTP/PHMCOL-M 610

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHYSIOL/NEURODPT/NTP/ZOOLOGY 616 – LAB COURSE IN NEUROBIOLOGY AND BEHAVIOR**

4 credits.

Students will do three independent experimental modules exploring neurophysiology and behavior, each taking 4-5 weeks. Students will work in groups of 2 or 3 and will learn techniques and then develop their own short investigations into each of three separate areas of neurobiology. There will be continual interaction between students and faculty.

**Requisites:** ZOOLOGY/NTP/PSYCH/ZOOLOGY 523 and NTP/PHYSIO / PSYCH/ZOOLOGY/NTP/PHYSIOL/PSYCH 524 or NTP/PHMCOL-M/PHYSIOL/NTP/PHMCOL-M 610 and ANATOMY/NTP/PHMCOL-M/PHYSIOL/PSYCH/ANATOMY/NTP/PHMCOL-M/PHYSIOL 611

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHYSIOL/ANATOMY/NTP 625 – BRAIN CELL CULTURES AND IMAGING: A LAB COURSE**

4 credits.

Hands-on laboratory training in neuronal cell culture, live and fixed neuron labeling and microscopy techniques to visualize neurons in culture, as well as image analysis methods. Enrollment limited to 12 students, authorized by cons inst

**Requisites:** Intro crses in biochem, cell biology anatomy.

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**PHYSIOL/NTP 629 – MOLECULAR AND CELLULAR MECHANISMS OF MEMORY**

3 credits.

Course will focus on the cell signaling and the resulting structural changes that occur at neuronal synapses during memory formation. The aim is to understand how the synaptic changes underlying memory occur.

**Requisites:** Crse in cellular neurosci (Neurosci 523 or equiv); BIOCHEM 501 or equiv

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**PHYSIOL/ANATOMY/NTP 630 – NEURONAL MECHANISMS FOR SENSATION AND MEMORY IN CEREBRAL CORTEX**

3 credits.

Current literature will be considered in lectures and discussions that provides insight into how the cerebral cortex processes sensory information to generate and store cogent representations of the external world. The course includes laboratory exercises and demonstrations.

**Requisites:** Intro neurosci crse highly recommended: Neurosci/Anat/Phmcol/PHYSIOL/ANATOMY/NTP/PHMCOL-M/PSYCH 611, Med Sc-M 731, Comp Bio 505, Zool/Neurosci/PSYCH/ZOOLOGY 523, Psych/Neurophy/Neurosci/Zool 524; or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PHYSIOL 675 – SELECTED TOPICS IN PHYSIOLOGY**

1-3 credits.

Each topic taught once every two years: advanced cardiovascular physiology, advanced respiratory physiology, advanced endocrinology, membrane transport physiology and neurobiology.

**Requisites:** Cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**PHYSIOL 699 – INDEPENDENT WORK**

1-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHYSIOL/NTP 700 – PROFESSIONAL DEVELOPMENT FOR BIOMEDICAL GRADUATE STUDENTS**

1 credit.

Provides graduate students with the skills and knowledge necessary to succeed in science. Topics which are covered include choosing a thesis advisor, grant writing, preparing a seminar presentation, etc.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHYSIOL/KINES 773 – CARDIORESPIRATORY ADAPTIONS TO ENVIRONMENT AND EXERCISE**

3 credits.

Examination of the effects of acute and chronic exercise and exposure to hypo- and hyperbaric environments on physiological responses; mechanisms underlying these responses.

**Requisites:** Physiol 720 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PHYSIOL 799 – INDEPENDENT READING**

1-4 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 1989

**PHYSIOL 901 – SEMINAR**

1 credit.

**Requisites:** A course in animal physiology

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PHYSIOL 990 – RESEARCH**

1-9 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PLANT PATHOLOGY (PL PATH)****PL PATH 1 – COOPERATIVE EDUCATION/CO-OP IN PLANT PATHOLOGY**

1 credit.

Full-time off-campus work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career. Students receive credit only for the term in which they are actively enrolled and working.

The same work experience may not count towards credit in PL PATH 399.

**Requisites:** So st, and consent of supervising instructor and academic advisor.

**Repeatable for Credit:** Yes, unlimited number of completions

**PL PATH/BOTANY 123 – PLANTS, PARASITES, AND PEOPLE**

3 credits.

The course will explore the interaction between society and plant-associated microbes. Topics include: the Irish potato famine, pesticides in current agriculture, role of economics and consumer preference in crop disease management and the release of genetically engineered organisms.

**Requisites:** Open to Fr**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PL PATH/HORT 261 – SUSTAINABLE TURFGRASS USE AND MANAGEMENT**

2 credits.

Sustainable use and management of turfgrass landscapes in urban and suburban environments, including home lawns, golf courses, and sports fields. Focus is on creating sustainable and attractive turfgrass landscapes through proper species selection, use of slow-release or organic fertilizer practices, and minimizing the use of pesticides and supplemental irrigation.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Fall 2017**PL PATH/HORT 262 – TURFGRASS MANAGEMENT LABORATORY**

1 credit.

Hands-on turf establishment, cool- and warm-season grass, seed and weed identification, chemical application, and turf cultivation techniques and equipment use, plus field trips to major league sport facilities and golf courses.

**Requisites:** HORT/PL PATH 261 or concurrent enrollment**Repeatable for Credit:** No**Last Taught:** Fall 2017**PL PATH 289 – HONORS INDEPENDENT STUDY**

1-2 credits.

Inter-Ag 288

**Requisites:** Enrolled in the CALS Honors Prgm Sophomore or Junior standing.**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2000**PL PATH 299 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Open to Freshmen, Sophomore or Junior standing written consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PL PATH 300 – INTRODUCTION TO PLANT PATHOLOGY**

4 credits.

Economic importance, symptoms, causes, and methods of control of representative plant diseases.

**Requisites:** Intro course in bot**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PL PATH/F&W ECOL/HORT/LAND ARC 309 – DISEASES OF TREES AND SHRUBS**

3 credits.

Fundamental disease concepts, pathogens and causal agents, diagnosis, and biologically rational principles and practices for management of diseases of trees and shrubs. For degree students and professionals. One extended lecture with discussion and one lab or field trip per week.

**Requisites:** One semester of plant sci or consent of instructor**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PL PATH 311 – GLOBAL FOOD SECURITY**

3 credits.

Isn't having enough food a basic human right? Exploration of the drivers of food insecurity: barriers to food production (pests, land availability, climate), barriers to food availability (politics, price, biofuels), and a greater need due to population growth. Examination of solutions to food insecurity.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PL PATH/SOIL SCI 323 – SOIL BIOLOGY**

3 credits.

Nature, activities and role of organisms inhabiting soil. Effects of soil biota on ecosystem function, response to cultural practices, and impacts on environmental quality, including bioremediation of contaminated soils.

**Requisites:** CHEM 104 and BOTANY/BIOLOGY 130 or equiv**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**PL PATH/BOTANY 332 – FUNGI**

4 credits.

Growth, development, variability and dispersal of saprophytic, parasitic, and symbiotic fungi, with a consideration of their ecological and economic significance.

**Requisites:** A 5 cr intro crse in botany

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PL PATH/AGRONOMY/ENTOM/HORT/SOIL SCI 354 – DIAGNOSING AND MONITORING PEST AND NUTRIENT STATUS OF FIELD CROPS**

1 credit.

This course is designed to provide students with information necessary to diagnosis and monitor corn, soybean, alfalfa and wheat for pests (insects, weeds, diseases) and nutrient deficiency symptoms including perspectives from Agronomy, Entomology, Horticulture, Plant Pathology and Soil Science. Proper soil and pest sampling information will be provided as will proper crop staging techniques which are essential for pest and nutrient management.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PL PATH/ENVIR ST/M&ENVTOX 368 – ENVIRONMENTAL LAW, TOXIC SUBSTANCES, AND CONSERVATION**

2 credits.

Development of and need for "environmental law"; an introduction to the legal system; public and private rights in the environment; regulation of pesticides and toxic substances; environmental legislation and rulemaking; environmental impact statements; professionals as expert witnesses. No prior knowledge of law assumed. For scientists and others dealing with environmental issues in academia, industry and government.

**Requisites:** So st

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**PL PATH 375 – SPECIAL TOPICS**

1-4 credits.

Subjects of current interest to undergrads.

**Requisites:** Cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PL PATH 399 – COORDINATIVE INTERNSHIP/COOPERATIVE EDUCATION**

1-8 credits.

**Requisites:** So, Jr or Sr st and cons supervising inst, advisor, and internship program coordinator

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, for 8 number of completions

**Last Taught:** Spring 2017

**PL PATH 400 – STUDY ABROAD IN PLANT PATHOLOGY**

1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. W.-Madison Study Abroad Program

**Requisites:** Current registration in a U.

**Repeatable for Credit:** Yes, unlimited number of completions

**PL PATH/BOTANY/ENTOM 505 – PLANT-MICROBE INTERACTIONS: MOLECULAR AND ECOLOGICAL ASPECTS**

3 credits.

Molecular and ecological aspects of the interactions between plants and microorganisms. This course explores many of the themes, from genetic to integrative, of modern biology, and illustrates how study of plant-microbe interactions contributes to understanding of fundamental plant science. g. Bact 303); biochem (e.g. BIOCHEM 501); genetics (e.g. GENETICS 466) or cons inst

**Requisites:** An upper level crse in microbiol (e.

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PL PATH 517 – PLANT DISEASE RESISTANCE**

2-3 credits.

Host resistance in plant disease control. Conceptual and applied aspects of resistance: how it works, why it sometimes fails, and the traditional and modern techniques used for evaluating host resistance and incorporating resistance factors into new plant varieties.

**Requisites:** Previous coursework in plant pathology, genetics and/or plant breeding, or consent of instructor

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**PL PATH 558 – BIOLOGY OF PLANT PATHOGENS**

3 credits.

Explores biology of plant pathogenic fungi, oomycetes, nematodes, bacteria, and viruses, with emphasis on identifying: 1) key traits of each pathogen class, and 2) common strategies used by these microbes. Inquiry-driven laboratory will investigate diverse interactions between plants and their pathogens.

**Requisites:** PI Path 300 or equiv or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**PL PATH 559 – DISEASES OF ECONOMIC PLANTS**

3 credits.

Symptoms, epidemiology and control of diseases of crop plants; emphasis on disease diagnosis. Plant disease clinic, field trips, lectures and lab.

**Requisites:** Plant Path 300 332**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**PL PATH 590 – CAPSTONE IN PLANT PATHOLOGY**

1-4 credits.

Synthesizing research-based capstone experience for students majoring in Plant Pathology. Students will develop problem-solving skills, be exposed to multidisciplinary approaches, develop teamwork and interpersonal skills, develop information resources, consider societal, economic, ethical, scientific and professional aspects of the field, and prepare and present written and/or oral reports.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PL PATH 602 – ECOLOGY, EPIDEMIOLOGY AND CONTROL OF PLANT DISEASES**

3 credits.

Environmental factors in the development and spread of diseases, pathogen variability, genetics of disease resistance, and principles of disease control.

**Requisites:** Knowledge equiv to that obtained in PI Path 300, BOTANY/PL PATH 332, STAT/F&W ECOL/HORT 571, Math 212, PI Path 616 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**PL PATH/ENTOM/F&W ECOL/M&ENVTOX/SOIL SCI 606 – COLLOQUIUM IN ENVIRONMENTAL TOXICOLOGY**

1 credit.

Current topics in molecular and environmental toxicology and problems related to biologically active substances in the environment. Topics vary each semester. Lectures are by resident and visiting professors and other researchers.

**Requisites:** Biology/ZOOLOGY/BIOLOGY 101, Biology/BOTANY/BIOLOGY 130, or equivalent**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**PL PATH/MICROBIO 622 – PLANT-BACTERIAL INTERACTIONS**

2-3 credits.

Physiology, genetics, taxonomy, and ecology of bacterial pathogens, epiphytes, and symbionts of plants.

**Requisites:** A course in advanced bacteriology; GENETICS 466 or equiv; BIOCHEM 501 or equiv; or cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PL PATH/MICROBIO/ONCOLOGY 640 – GENERAL VIROLOGY-MULTIPLICATION OF VIRUSES**

3 credits.

Bacterial and animal viruses, their structure, multiplication, and genetics.

**Requisites:** Intro crses in bact, biochem genetics**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PL PATH/BOTANY/GENETICS/M M & I/MICROBIO 655 – BIOLOGY AND GENETICS OF FILAMENTOUS FUNGI**

3-4 credits.

Fungal genetics, genomics, and physiology using plant pathogenic fungi and the genetic models *Aspergillus nidulans* and *Neurospora crassa* as model systems to explore the current knowledge of fungal genetics and plant/fungal interactions.

**Requisites:** Cons inst; PI Path 300 332 recommended; GENETICS 466 or equiv; general microbiol crse**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016



**PL PATH 681 – SENIOR HONORS THESIS**

2-4 credits.

**Requisites:** Honors candidacy**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** No**Last Taught:** Fall 2017**PL PATH 682 – SENIOR HONORS THESIS**

2-4 credits.

Continuation of 681.

**Requisites:** Honors program candidacy PI Path 681**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** No**Last Taught:** Spring 2017**PL PATH 699 – SPECIAL PROBLEMS**

1-5 credits.

**Requisites:** Sr st cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PL PATH 799 – PRACTICUM IN PLANT PATHOLOGY TEACHING**

1-3 credits.

Instructional orientation to teaching at the higher education level in the agricultural and life sciences, direct teaching experience under faculty supervision, experience in testing and evaluation of students, and the analysis of teaching performance.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PL PATH 800 – INQUIRY-BASED BIOLOGY TEACHING**

1-2 credits.

The goal is for students to develop competence and confidence as teachers. The course covers fundamentals of learning theory and practical strategies for teaching biology. Students practice lecturing, manage classroom dynamics, and teach laboratory sections (optional).

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**PL PATH 801 – TEACHING BIOLOGY: SPECIAL TOPICS**

1 credit.

Students will learn about mentoring and/or instructional materials. Students have two options: (a) practice mentoring undergraduate researchers with feedback and evaluation and/or (b) develop and evaluate instructional materials. This course builds on content from Plant Pathology 800.

**Requisites:** PI Path 800 or con reg**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**PL PATH 875 – SPECIAL TOPICS**

1-4 credits.

Topics of current interest to Grad students.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PL PATH 923 – SEMINAR**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PL PATH/BOTANY 930 – SEMINAR-MYCOLOGY**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PL PATH 990 – RESEARCH**

1-9 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## POLITICAL SCIENCE (POLI SCI)

**POLI SCI 100 – FRESHMAN TOPICS SEMINAR**

3 credits.

An umbrella course to be used to offer a variety of special topics seminars for freshmen. See footnote for Topic Title.

**Requisites:** First year students only**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016

**POLI SCI 104 – INTRODUCTION TO AMERICAN POLITICS AND GOVERNMENT**

3-4 credits.

Basic institutions and processes of American government. The role of constitutional structures, parties, interest groups and elections in the system; policy formation and policy content.

**Requisites:** Not open to students who have taken POLI SCI 184 or POLI SCI 404

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI 120 – POLITICS AROUND THE WORLD**

4 credits.

Comparison of politics and government in selected countries around the world.

**Requisites:** Not open to students with credit for POLI SCI 182 (or POLI SCI 186 prior to fall 2017)

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI 140 – INTRODUCTION TO INTERNATIONAL RELATIONS**

3-4 credits.

Covers the major issues in international relations since the end of World War II including: the causes of war; civil wars and ethnic conflict; economic development; international trade; exchange rates and international monetary relations; international capital flows and financial crises; foreign direct investment; globalization and the environment; the UN, the IMF, World Bank, WTO, and other international organizations; and international law and human rights. The focus is on states' relations with each other and the factors determining the nature and outcomes of these international interactions. The course seeks to develop analytical tools for thinking about important questions in world politics regardless of the countries or issues involved, to examine international affairs in a systematic way.

**Requisites:** Students who have taken POLI SCI 103 prior to Fall 2017 may not enroll in this course.

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI 160 – INTRODUCTION TO POLITICAL THEORY**

3-4 credits.

Exploration of core problems of political life, such as the nature and limits of obligation, the concept of justice and its political implications, and the relationship between equality and liberty, through a selection of ancient and modern sources.

**Requisites:** Not open to students with credit for POLI SCI 209 prior to fall 2017

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI 170 – RESEARCH METHODS IN POLITICAL SCIENCE**

3 credits.

Introduces students to political science as a discipline by focusing on the development of research questions, research designs, and the quantitative and qualitative tools commonly used to implement research designs.

**Requisites:** Not open to students with credit for POLI SCI 200 prior to fall 2017

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI 181 – TOPICS IN POLITICAL ANALYSIS-HONORS**

3 credits.

A freshman/sophomore honors seminar. Topics will vary, see footnote for Topic Title.

**Requisites:** Declared in honors program

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2010

**POLI SCI 182 – POLITICS AROUND THE WORLD (HONORS)**

3 credits.

Comparison of politics and government in selected countries around the world.

**Requisites:** Declared in honors program

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI 184 – INTRODUCTION TO AMERICAN POLITICS**

3 credits.

Basic institutions and processes of American government. The role of constitutional structures, parties, interest groups and elections in the system; policy formation and policy comment. Not open to students with credit for POLI SCI 104

**Requisites:** Declared in an honors program.**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2016**POLI SCI 199 – DIRECTED STUDY**

2 credits.

Directed study projects for freshmen and sophomores as arranged with a faculty member; students should have completed at least one course in POLI SCI.

**Requisites:** Consent of instructor**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**POLI SCI 201 – SPECIAL TOPICS IN POLITICAL SCIENCE**

3 credits.

An experimental topics course that introduces students to compelling recent events and to the current research of political scientists. This course can be repeated by students, but not with the same content.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**POLI SCI 202 – PREPARATION FOR THE WISCONSIN IN WASHINGTON PROGRAM**

1 credit.

This course will prepare students to participate in the Wisconsin in Washington Internship Semester. The course focuses on internship searches, applications, and decisions on where to work. The course also sets academic, professional and personal goals for the upcoming term in DC. Students will also identify a tentative public policy topic that they will initiate this term and research and complete during the semester in DC. The course will spend time on reviewing general and DC-specific standards of professional conduct. Successful completion of this course is required for final admission to the Wisconsin in Washington Program.

**Requisites:** None**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**POLI SCI 205 – INTRODUCTION TO STATE GOVERNMENT**

3-4 credits.

Basic institutions and processes of state government in the United States; the role of parties, pressure groups, and elections in the system; the policy process, its outputs and outcomes; the role of states in the federal system, and the diversity of state politics and policy.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2013**POLI SCI 206 – INTRODUCTION TO POLITICAL PSYCHOLOGY**

3-4 credits.

Examines the psychological aspects of the political behavior of individuals—whether elites, activists or members of general publics—and their consequent political behaviors in various groups and institutional contexts.

**Requisites:** Not open to students with credit for POLI SCI 267 prior to fall 2017**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**POLI SCI 207 – INTRODUCTION TO AFRO-AMERICAN POLITICS**

3-4 credits.

Survey of the political conditions in Black America.

**Requisites:** POLI SCI 104, POLI SCI 184, or POLI SCI/LEGAL ST/ POLI SCI 217**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2013**POLI SCI/LEGAL ST 217 – LAW, POLITICS AND SOCIETY**

3-4 credits.

Introduction to the legal process. Examination of the various concepts of law, the perennial problems of the law, legal reasoning, and the nature and function of law and the courts.

**Requisites:** Freshmen or sophomore standing only**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**POLI SCI/CHICLA 231 – POLITICS IN MULTI-CULTURAL SOCIETIES**

3-4 credits.

Race, ethnicity, and religion as political factors; cultural pluralism, politics, and policy in the United States and selected other multi-cultural politics.

**Requisites:** Freshmen or sophomore standing only

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**POLI SCI/GEOG/HISTORY/LCA/SOC 244 – INTRODUCTION TO SOUTHEAST ASIA: VIETNAM TO THE PHILIPPINES**

4 credits.

Southeast Asian history, religion, folklore and literatures, educational systems, and politics from the early classical states to contemporary social, literary, and political developments.

**Requisites:** None

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI/GEOG/HISTORY/LCA/SOC 252 – THE CIVILIZATIONS OF INDIA-MODERN PERIOD**

4 credits.

Contemporary India society as a joint product of the classical heritage and world-wide movements toward nationalism; social and economic development.

**Requisites:** None

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**POLI SCI/GEOG/HISTORY/SLAVIC 253 – RUSSIA: AN INTERDISCIPLINARY SURVEY**

4 credits.

Comprehensive interdisciplinary survey of Russian civilization from its beginnings through the present day.

**Requisites:** None

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**POLI SCI/GEOG/HISTORY/SLAVIC 254 – EASTERN EUROPE: AN INTERDISCIPLINARY SURVEY**

4 credits.

Comprehensive interdisciplinary survey of East European culture, society, politics, and literature from its beginnings to the present day.

**Requisites:** None

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**POLI SCI/E A STDS/HISTORY 255 – INTRODUCTION TO EAST ASIAN CIVILIZATIONS**

3-4 credits.

Multidisciplinary and historical perspectives on the East Asian civilizations of China, Japan, Korea, Tibet and Mongolia from prehistory to the present, including developments in philosophy, economy, governance, social structure, kinship, geography, etc.

**Requisites:** None

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**POLI SCI/AFROAMER/ANTHRO/C&E SOC/GEOG/HISTORY/LACIS/SOC/SPANISH 260 – LATIN AMERICA: AN INTRODUCTION**

3-4 credits.

Latin American culture and society from an interdisciplinary perspective; historical developments from pre-Columbian times to the present; political movements; economic problems; social change; ecology in tropical Latin America; legal systems; literature and the arts; cultural contrasts involving the US and Latin America; land reform; labor movements; capitalism, socialism, imperialism; mass media.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**POLI SCI 265 – DEVELOPMENT OF ANCIENT AND MEDIEVAL WESTERN POLITICAL THOUGHT**

3-4 credits.

Exploration of core problems in classical and European thought, such as the character of the best regime, the role of politics in the good life, and the relationship between virtue and happiness, through a selection of ancient sources. Not open to students with credit for POLI SCI 501 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 160 or ILS 205) or (POLI SCI 209 taken prior to fall 2017).

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**POLI SCI 266 – THE DEVELOPMENT OF MODERN WESTERN POLITICAL THOUGHT**

3-4 credits.

Exploration of core problems in modern European political thought, such as the nature and origins of obligation, the relationship between religion and politics, and representation, through a selection of modern sources.

Not open to students with credit for POLI SCI 502 prior to fall 2017

**Requisites:** Sophomore standing and POLI SCI 160 or ILS 205 (or POLI SCI 209 taken prior to fall 2017).

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**POLI SCI 270 – UNDERSTANDING POLITICAL NUMBERS**

3-4 credits.

How numbers and statistics are used in electoral strategies, political debates and legal proceedings. Presents basic tools of analysis and how to use them. Not open to students with credit for POLI SCI 218 prior to fall 2017

**Requisites:** Satisfied Quantitative Reasoning (QR) A requirement.

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI 272 – INTRODUCTION TO PUBLIC POLICY**

3-4 credits.

Major issues of public policy in such fields as economic management, welfare, education, health, energy and the environment. How public problems develop, approaches to policy-making, why programs succeed and fail. Not open to students with credit for POLI SCI 219 prior to fall 2017

**Requisites:** Sophomore standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI 274 – POLITICAL CHOICE AND STRATEGY**

3-4 credits.

An introduction to decision analysis, strategic interaction, and voting systems and their manipulation. Examines a wide range of institutions for making social choices and the opportunities for the exercise of political strategy.

**Requisites:** Satisfied Quantitative Reasoning (QR) A requirement

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**POLI SCI/AFRICAN/AFROAMER/ANTHRO/GEOG/HISTORY/SOC 277 – AFRICA: AN INTRODUCTORY SURVEY**

4 credits.

African society and culture, polity and economy in multidisciplinary perspectives from prehistory and ancient kingdoms through the colonial period to contemporary developments, including modern nationalism, economic development and changing social structure.

**Requisites:** None

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI/AFRICAN/AFROAMER/HISTORY 297 – AFRICAN AND AFRICAN-AMERICAN LINKAGES: AN INTRODUCTION**

4 credits.

Analysis of retention of African elements in African-American oral, written, and material culture. Social, cultural, and political issues regarding race, self-definition, and self-determination in both Africa and North America will be examined.

**Requisites:** None

**Course Designation:** Ethnic St - Counts toward Ethnic Studies

requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**POLI SCI/CHICLA 302 – MEXICAN-AMERICAN POLITICS**

3-4 credits.

This class examines the major problems and issues in Mexican-American politics since World War II. An emphasis will be placed on the ways in which race, class and culture have structured politics for the Mexican origin people. Not open to students with credit for POLI SCI 464 prior to fall 2017

**Requisites:** Sophomore standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**POLI SCI 303 – ELECTION CAMPAIGN PRACTICUM**

3 credits.

Techniques and strategies of election campaigning in their legal, social, ideological and historical contexts; explanations of electoral outcomes. Students will concurrently work in campaigns of their choosing, and analyze their experiences. Not open to students with credit for POLI SCI 468 prior to fall 2017

**Requisites:** Sophomore, junior, or senior standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**POLI SCI 304 – THE POLITICAL ECONOMY OF RACE IN THE UNITED STATES**

3-4 credits.

Race in relation to American economic development. Problems of racial minorities in the American political and economic system. Not open to students with credit for POLI SCI 462 prior to fall 2017

**Requisites:** POLI SCI 104, 184, POLI SCI/LEGAL ST/POLI SCI 217, CHICLA 201, or AFROAMER 151.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**POLI SCI 305 – ELECTIONS AND VOTING BEHAVIOR**

3-4 credits.

Psychological and social components of voting behavior, current electoral trends, role of voters in the governing process. Not open to students with credit for POLI SCI 467 prior to fall 2017

**Requisites:** Sophomore standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**POLI SCI 308 – PUBLIC ADMINISTRATION**

3-4 credits.

Role of administration in modern government; problems of organization, control, personnel, and finance. Not open to students with credit POLI SCI 443 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 104, 184, or POLI SCI/LEGAL ST/POLI SCI 217).

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**POLI SCI 309 – CIVIL LIBERTIES IN THE UNITED STATES**

3-4 credits.

American constitutional context, rights of conscience and expression; rights of defendants; equal protection of the laws; vindication of rights; proposals for reform. Not open to students with credit for POLI SCI 471 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 104, 184 or POLI SCI/LEGAL ST/POLI SCI 217).

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2014

**POLI SCI 311 – UNITED STATES CONGRESS**

3-4 credits.

Principles, procedures and problems of the legislative process of the United States Congress. Not open to students with credit for POLI SCI 426

**Requisites:** Sophomore standing and (POLI SCI 104, 184, or POLI SCI/LEGAL ST/POLI SCI 217).

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI 313 – BARGAINING IN THE GLOBAL ECONOMY**

3-4 credits.

This course explores the techniques and outcomes of bargains struck between states, and between states and firms in the global economy. The emphasis is on micro political economy and negotiation/bargaining theory.

**Requisites:** Poli Sci 312, or ECON 364 or 464, or equiv

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**POLI SCI 314 – CRIMINAL LAW AND JUSTICE**

3-4 credits.

Substantive and procedural aspects of criminal law, including the purposes of criminal justice, specific crimes, criminal responsibility and punishment, legal concepts of proof, and 4th, 5th, and 6th Amendment issues. The case approach is used. Not open to students with credit for POLI SCI 452 prior to fall 2017

**Requisites:** Sophomore standing and a course in POLI SCI or SOC.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI 315 – LEGISLATIVE INTERNSHIP**

3 credits.

Practical experience in a legislative office. Policy research. Readings in legislative process.

**Requisites:** Consent of instructor

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**POLI SCI 321 – LATIN-AMERICAN POLITICS**

3-4 credits.

Contemporary political problems in Latin America; emphasis on political economy, political instability, social movements, and democratization.

Not open to students with credit for POLI SCI 630 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 120 or 182) or (POLI SCI 106 or 186 taken prior to fall 2017) or graduate standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**POLI SCI 322 – POLITICS OF SOUTHEAST ASIA**

3-4 credits.

Comparative analysis of such issues as state formation, state-society relations, the politics of economic development, tensions between authoritarianism and democracy, and the politics of identity, with particular attention to a select number of major countries of Southeast Asia. Not open to students with credit for POLI SCI 639 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 120 or 182) or (POLI SCI 106 or 186 taken prior to fall 2017) or graduate standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**POLI SCI 323 – ISLAM AND WORLD POLITICS**

3-4 credits.

Examines the multifaceted nature of political Islam in the contemporary world. Starting with the basic tenants of Islam, and key concepts and theoretical understandings of the relationships between Islam and politics, the course builds on the approaches developed in the first part of the course examining how Islam has influenced politics differently in various parts of the world including the Middle East, Southeast Asia, and South Asia. Students will familiarize themselves with theoretical debates about the roles of Islam in politics; analyze the impact of Islam on politics in the contemporary world; and gain empirical knowledge about how Islam functions differently in various countries.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**POLI SCI 324 – POLITICAL POWER IN CONTEMPORARY CHINA**

3-4 credits.

Analysis of the major institutions, ideas, people and groups in China today and their impact on power, decision-making and social change. Not open to students with credit for POLI SCI 642 prior to fall 2017

**Requisites:** Sophomore standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**POLI SCI/INTL ST 325 – SOCIAL MOVEMENTS AND REVOLUTIONS IN LATIN AMERICA**

3-4 credits.

An introduction to the major empirical and theoretical themes in the study of social movements and politics in Latin America. While it is impossible to cover every theoretical approach or Latin American case during the semester, the course should give students the tools to begin to think critically about where and why people engage in collective action. We will develop and hone these tools through thinking about Latin American cases, paying specific attention to revolutions, social movements, and riots. The course is designed in three parts. It begins by exposing students to the dominant theoretical paradigms in the study of contentious politics as well as some prominent critiques. The course then turns to empirical themes in Latin American revolutions, challenging students to use and question the theoretical tools to which they have already been exposed. The final part of the course looks to social movements in Latin America. Cases will focus on challenges to dictatorships, identity-based movements, and resistance to globalization.

**Requisites:** Sophomore standing and (POLI SCI 120, 140 or INTL ST 101) or (POLI SCI 103 or 106 taken prior to Fall 2017)

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**POLI SCI/LCA 326 – POLITICS OF SOUTH ASIA**

3-4 credits.

Introduces students to the history and politics of the region with a special focus on India, Pakistan, and Sri Lanka and the regional and international contexts of South Asia. Students who have taken POLI SCI 651 prior to Fall 2017 may not enroll in this course. Not open to students with credit for POLI SCI 651 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 120 or POLI SCI 182 or INTL ST 101) or (POLI SCI 106 or 186 taken prior to fall 2017) or graduate standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**POLI SCI/INTL ST 327 – INDIAN POLITICS IN COMPARATIVE PERSPECTIVE**

3 credits.

This course explores the socio-economic and political outcomes across India. This course will employ the major theories of comparative politics that explain political outcomes such as regime type, economic development and conflict. This course explores why some countries are democracies, while others are dictatorships; why some countries are poor, while others are rich; and why some countries experience high levels of violence, while others are peaceful. The course considers how India comports with standard theories in comparative politics and how standard theories might be revised in light of the Indian case. The course maps variation on the sub-national and regional level. The course will ultimately consider reforms proposed by the Indian state to further democratic and economic development and to reduce conflict. Students will learn about India's politics in a structured manner, and will gain an appreciation of the power and limitations of the political science method.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**POLI SCI 328 – POLITICS OF EAST AND SOUTHEAST ASIA**

3-4 credits.

Asia is a vibrant region politically and economically, and is very important to the United States for international security and economic stability. Given its importance, this course provides broad and essential knowledge about Asian nations with a particular focus on China, South Korea, North Korea, Indonesia, Thailand, and the Philippines. Country studies are intended to introduce major issues in comparative politics such as democratization, elections, economic development, security, religion and politics. This course will enable students to (1) gain an empirical and analytical understanding of the political dynamics of the region; (2) think comparatively within the regime and across the developing world more generally; and (3) address and debate theoretical questions in political science through Asian politics materials.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**POLI SCI 329 – AFRICAN POLITICS**

3-4 credits.

Process of rapid political change in contemporary Africa with special emphasis on the emergence of new states. Not open to students with credit for POLI SCI 660 prior to fall 2017

**Requisites:** Sophomore standing and POLI SCI 120, 182, or POLI SCI/AFRICAN/AFROAMER/ANTHRO/GEOG/HISTORY/SOC/AFRICAN/AFROAMER/ANTHRO/GEOG/HISTORY/POLI SCI 277 (or POLI SCI 106 or 186 taken prior to fall 2017).

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**POLI SCI 330 – POLITICAL ECONOMY OF DEVELOPMENT**

3 credits.

An introduction to the political economy of development. The course asks why are some countries rich and others poor. To help answer this question, the course examines leading theories of economic development. In light of these theories, the course highlights the development experiences of three major regions of the world: the West, East Asia, and the former Communist Block. The course considers a series of issues about development, including the effect of ethnic diversity, corruption, natural resources and women's empowerment on economic development concluding with an examination of the effects of the international interactions—via trade, foreign aid, migration and war—on economic development.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**POLI SCI 332 – GERMAN POLITICS**

3-4 credits.

A broad overview of politics in Germany, Europe's politically and economically most powerful country. The course is structured around several broad themes: political institutions, electoral system and elections, parties and party system, interest representation, political participation, political economy, the legacies of Germany's past, social policy, European and foreign policy, and current and future challenges. Throughout the semester, we will relate the German experience to broader issues, problems, and concepts used in the comparative study of domestic politics.

**Requisites:** Sophomore standing and POLI SCI 120 or 182 (or POLI SCI 106 or 186 prior to fall 2017)

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No

**POLI SCI 333 – INTERNATIONAL POLITICS OF THE MIDDLE EAST**

3-4 credits.

Surveys the international politics of the Middle East. Topics to be considered include the international origins of the Middle Eastern states system, inter-Arab politics, the Arab-Israeli conflict; transnational forces.

**Requisites:** Sophomore standing and POLI SCI 120, 140, 182 or INTL ST 101 or (POLI SCI 103, 106, or 186 taken prior to fall 2017)

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**POLI SCI 334 – RUSSIAN POLITICS**

3-4 credits.

Theory and practice of Russian States, emphasis on politics, economic and institutional developments since 1991. Not open to students with credit for POLI SCI 633 prior to fall 2017

**Requisites:** Sophomore standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**POLI SCI 340 – THE EUROPEAN UNION: POLITICS AND POLITICAL ECONOMY**

3-4 credits.

Introduction to the history and theory of European integration. Topics include the workings of EU institutions and law, the effect of the EU on national politics and economy, economic politics and policy-making in the EU, the EU as an actor in the world economy. Students who have taken POLI SCI 338 prior to Fall 2017 may not enroll in this course.

**Requisites:** POLI SCI 120, 140, 182, or INTL ST 101 (or POLI SCI 103, 106, or 186 taken prior to fall 2017) or graduate standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**POLI SCI 343 – THEORIES OF INTERNATIONAL SECURITY**

3-4 credits.

Role of alliances in contemporary and historical international political systems. Purpose of alliance formation; reasons for their dissolution; relationship of alliance activity with international war and with political integration. Role of alliances in future international systems. Not open to students with credit for POLI SCI 367 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 140 or INTL ST 101) or (POLI SCI 103 taken prior to fall 2017).

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**POLI SCI 345 – CONFLICT RESOLUTION**

3-4 credits.

Every war comes to an end, but some end sooner than others. This course analyzes why and how conflicts come to an end, discussion relevant theories of conflict and conflict resolution, and important cases.

Not open to students with credit for POLI SCI 378 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 140 or INTL ST 101) or (POLI SCI 103 taken prior to fall 2017) or graduate standing.

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**POLI SCI 346 – CHINA IN WORLD POLITICS**

3-4 credits.

Chinese foreign policy as seen from Beijing—the need for national security, the desire for revolution; and the impact of China on the rest of the world.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**POLI SCI 347 – TERRORISM**

3 credits.

Examines the causes of terrorism, goals and strategies pursued by terrorist groups, the consequences of terrorism, and counterterrorism policies adopted by governments. Not open to students with credit for POLI SCI 319 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 104, 120, 140, 182, 184, INTL ST 101 or POLI SCI/LEGAL ST/POLI SCI 217) or (POLI SCI 103, 106, or 186 taken prior to fall 2017) or graduate standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI 348 – ANALYSIS OF INTERNATIONAL RELATIONS**

3-4 credits.

Focuses on how to analyze problems in international politics by the use of game theory. Examples include governments making choices about the size of their military forces, barriers to trade, or international agreements on environmental issues. Analysts study strategic interaction using both informal and mathematical methods. Provides a good introduction to the basics of game theory – a tool useful in many different settings – as well as an introduction to the study of world politics. From the perspective of quantitative reasoning, one of the most important set of lessons center on the logic of strategic interaction and the notion of equilibrium. Along with basic game theory students will also be introduced to the pragmatic use of mathematical tools including algebra, set theory, functions, and probability theory. Not open to students with credit for POLI SCI 376 prior to fall 2017

**Requisites:** Satisfied Quantitative Reasoning (QR) A requirement and (POLI SCI 140 or INTL ST 101) or (POLI SCI 103 taken prior to fall 2017).

**Course Designation:** Gen Ed - Quantitative Reasoning Part B  
Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI 350 – INTERNATIONAL POLITICAL ECONOMY**

3-4 credits.

Analyzes the interaction of politics and economics in the international arena, both historically and in the contemporary era of globalization. Focuses on international trade, monetary, and financial relations in both developed and developing economies. Not open to students with credit for POLI SCI 371 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 140 or INTL ST 101) or (POLI SCI 103 taken prior to fall 2017) or graduate standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**POLI SCI 351 – POLITICS OF THE WORLD ECONOMY**

3-4 credits.

Power conflict at the international economic level and its impact on the politics of various nations, regions, and interests. Not open to students with credit for POLI SCI 312 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 140 or INTL ST 101) or (POLI SCI 103 taken prior to fall 2017) or graduate standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**POLI SCI 353 – THE THIRD WORLD IN THE INTERNATIONAL SYSTEM**

3-4 credits.

This course examines the historical evolution of the Third World in general and North-South relations in specific. Particular attention is addressed to the institutions of colonialism and patterns of post-colonial relations between the First and Third Worlds.

**Requisites:** Sophomore standing and (POLI SCI 140 or INTL ST 101) or (POLI SCI 103 taken prior to fall 2017)

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**POLI SCI 354 – INTERNATIONAL INSTITUTIONS AND WORLD ORDER**

3-4 credits.

The study of international cooperation and the analysis of regional, functional, and universal regimes and institutions. Not open to students with credit for POLI SCI 337 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 140 or INTL ST 101) or (POLI SCI 103 taken prior to fall 2017) or graduate standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI/CHICLA/HISTORY/LACIS 355 – LABOR IN THE AMERICAS: US & MEXICO IN COMPARATIVE & HISTORICAL PERSPECTIVE**

3 credits.

Provides a critical examination of the history of labor and working people in the Americas, from the colonial era to the present. It focuses on the experience of the United States and Mexico, offering a comparative perspective on their distinct but also shared (and increasingly linked) histories. The seminar proceeds chronologically, highlighting major episodes in the evolution of labor systems in the two countries, beginning with the colonial labor systems implemented by the Spanish and British empires following the European conquest of the Western Hemisphere. Among other topics, we will examine the pivotal role of slavery and other forms of forced labor, the impact of the industrial revolution, the emergence and expansion of corporate capitalism and the labor unrest it provoked in the post-civil war U.S., the role of labor in the Mexican Revolution and its aftermath, the impact of the Great Depression and labor incorporation on the post-WWII social and political order of both countries, the breakdown of that order and the move to neo-liberalism in the 1970s and 1980s, and the emergence of an increasingly integrated North American production system and its consequences for labor and working people on both sides of the US-Mexico border.

**Requisites:** Sophomore standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**POLI SCI 356 – PRINCIPLES OF INTERNATIONAL LAW**

3-4 credits.

A survey course that focuses on interactions among the primary entities in the international system; namely, states, inter-governmental and non-governmental organizations, and other international actors governed by international law. The study of international relations and international law is absolutely critical to understanding contemporary politics, both domestic and foreign. This course addresses both structural and substantive issues related to international law. In other words, it should provide basic tools for understanding the way in which international law works, as well as introduce substantive issues of interest to students of world politics. The course will place special emphasis on the role of international organizations in the international legal system, and special attention will be paid to the European Union as an international actor within this system of law. Not open to students with credit for POLI SCI 316 prior to fall 2017

**Requisites:** Sophomore standing.**Course Designation:** Breadth - Social Science  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**POLI SCI 359 – AMERICAN FOREIGN POLICY**

3-4 credits.

This course undertakes a historical and analytical approach to U.S. foreign policy since World War II. The course is divided into three main topics: U.S. Foreign Policy since World War II and the evolution of U.S. policy and the impetus behind important foreign policy choices; The people and institutions and processes that guide foreign policy formation and implementation; And the more salient foreign policy challenges facing the U.S. in the 21st century including how the US has responded to the attacks of September 11, 2001, the effectiveness of foreign aid policy.

**Requisites:** Sophomore standing and (POLI SCI 104, 140, 184 or INTL ST 101) or (POLI SCI 103 taken prior to fall 2017) or graduate standing**Course Designation:** Breadth - Social Science  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2017**POLI SCI 360 – HISTORY OF AMERICAN POLITICAL THOUGHT**

3-4 credits.

The intellectual origins and evolution of American political thought as seen through the lens of leading politicians, novelists and social critics from the Puritans to the Civil War; consideration of the central tensions of American political thought from a contemporary perspective. Not open to students with credit for POLI SCI 565 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 160 or ILS 205) or (POLI SCI 209 taken prior to fall 2017) or graduate standing.**Course Designation:** Breadth - Humanities  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**POLI SCI 361 – CONTEMPORARY AMERICAN POLITICAL THOUGHT**

3-4 credits.

This course considers central themes and controversies in American political thinking during the 20th and early 21st centuries. Topics include the development of liberalism from the Progressive Era to the New Deal to the Great Society and beyond; the emergence of new strands of conservatism after World War II and the tensions between those strands; challenges by excluded and marginalized groups to the traditional social and political order; and the revival of concerns about "community" in America. As a topic of study, "American Political Thought" combines philosophy, political theory, history, and practical politics. The course covers a wide variety of texts, ranging from philosophical treatises to newspaper articles, from presidential addresses to works of social science with ultimate goal to become more knowledgeable and more critical students of the American political experience. Not open to students with credit for POLI SCI 566 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 160 or ILS 205) or (POLI SCI 209 taken prior to fall 2017).**Course Designation:** Breadth - Humanities  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**POLI SCI 363 – LITERATURE AND POLITICS**

3-4 credits.

Interactions between literature and politics, and the role of literature more generally in the functioning of the political systems. Not open to students with credit for POLI SCI 570 prior to fall 2017

**Requisites:** Sophomore standing.**Course Designation:** Breadth - Social Science  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**POLI SCI/JOURN/URB R PL 373 – INTRODUCTION TO SURVEY RESEARCH**

3 credits.

Theory and practice of survey research; planning, sampling, questionnaire construction, interviewing, content analysis, machine tabulation, analysis of data; two hours lecture; two hours lab or field work. Not open to students with credit for POLI SCI 544 prior to fall 2017

**Requisites:** Sophomore standing.**Course Designation:** Breadth - Social Science  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017



**POLI SCI 374 – INTRODUCTION TO STATISTICAL INFERENCE FOR POLITICAL RESEARCH**

3-4 credits.

Basic statistics course intended to provide students skills essential to read quantitative literature in Political Science and use basic empirical analyses. Fundamentals of probability theory and statistical inference up through bivariate regression and correlation. Not open to students with credit for POLI SCI 551 prior to fall 2017

**Requisites:** Sophomore standing and satisfied Quantitative Reasoning (QR) A requirement.

**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**POLI SCI 377 – NUCLEAR WEAPONS AND WORLD POLITICS**

3-4 credits.

Covers the origins of nuclear weapons, the reasons states seek them, the strategies developed for their use, the consequences of their development, and efforts to control and reverse their spread.

**Requisites:** Sophomore standing and (POLI SCI 140 or INTL ST 101) or (POLI SCI 103 taken prior to fall 2017) or graduate standing

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**POLI SCI 390 – STUDY ABROAD TOPICS IN POLITICAL SCIENCE: INTERNATIONAL RELATIONS**

1-4 credits.

An umbrella course for variable credit international relations courses taken on study abroad programs.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**POLI SCI 400 – TOPICS IN POLITICAL SCIENCE**

1-4 credits.

An umbrella course for variable credit topic courses, such as summer forum, intensive summer courses, half-semester courses, etc.

**Requisites:** Sophomore standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**POLI SCI 401 – SELECTED TOPICS IN POLITICAL SCIENCE**

3-4 credits.

A topics course for the exploration of current issues in Political Science.

**Requisites:** Sophomore standing

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**POLI SCI 402 – WISCONSIN IN WASHINGTON INTERNSHIP COURSE**

4 credits.

This course offers the opportunity to apply many things learned in the classroom to the professional world and to apply things learned in the professional world to a student's liberal arts education. Interning will introduce students to the professional world of political organizations giving them the chance to enhance professional skills, build a network of contacts, and explore possible career choices. This class stresses active reflection, self-assessment, and the honing of critical thinking and writing. The internship course builds structure with written assignments, activities, reflections, and readings to help students to make the most of their internships. Analytical work in this course will allow students to systematically analyze the workplace in ways that help them recognize prevailing office dynamics, adapt to accepted organizational standards, and to identify opportunities to be a more effective colleague. The course will ask students to analyze their current experiences and to relate them to their past learning and future possibilities.

**Requisites:** None

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**POLI SCI 405 – STATE GOVERNMENT AND PUBLIC POLICY**

3-4 credits.

The structure of state government and the politics of public policy-making in the fifty states.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**POLI SCI 408 – THE AMERICAN PRESIDENCY**

3-4 credits.

The President as chief administrative leader, political leader, foreign policy initiator, commander-in-chief, and head of state.

**Requisites:** Sophomore standing and (POLI SCI 104 or 184)

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**POLI SCI 409 – AMERICAN PARTIES AND POLITICS**

3-4 credits.

Electoral, organizational, and governmental roles of political parties at national and state levels, with emphasis on changes in response to historical and contemporary circumstances. Not open to students with credit for POLI SCI 424 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 104, 184, or POLI SCI/LEGAL ST/POLI SCI 217).

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**POLI SCI 410 – CITIZENSHIP, DEMOCRACY, AND DIFFERENCE**

4 credits.

A service-learning course designed to foster enhanced understanding of citizenship and civic engagement. Basic democratic theory, empirical research on political participation, functions and regulation of nonprofit organization. Not open to students with credit for POLI SCI 425 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 104, 184, or POLI SCI/LEGAL ST/POLI SCI 217).

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**POLI SCI 411 – THE AMERICAN CONSTITUTION : POWERS AND STRUCTURES OF GOVERNMENT**

4 credits.

This course undertakes an historical examination of the development of American constitutional thinking about powers and structures of government from the founding era to the present day. Issues that are considered include separation of powers, executive war powers, the powers of Congress, judicial review and the role of courts, and federalism. The course focuses on the development of constitutional law, constitutional politics, and American political development.

**Requisites:** Sophomore standing and (POLI SCI 104 or 184)

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI 412 – THE AMERICAN CONSTITUTION: RIGHTS AND CIVIL LIBERTIES**

4 credits.

This course undertakes an historical examination of the development of American constitutional thinking about individual rights and civil liberties from the founding era to the present day. Issues that are considered include freedoms guaranteed by the original Articles, the Bill of Rights, and the Civil War Amendments (XIII, XIV, and XV) as these issues appear in constitutional law, constitutional politics, and social and economic developments. The role of the federal courts, the nature and operation of principles of federalism, and the authority of Congress to protect constitutionally guaranteed rights are also major topics of consideration.

**Requisites:** Sophomore standing and (POLI SCI 104 or 184)

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**POLI SCI 414 – THE SUPREME COURT AS A POLITICAL INSTITUTION**

3 credits.

This course uses a social science approach to analyze theories of judicial decision making and to learn how law is made in a political context. Students will understand how the Supreme Court and justices operate in an interdependent political environment.

**Requisites:** Sophomore standing and (POLI SCI 104, 184, or POLI SCI/LEGAL ST/POLI SCI 217)

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**POLI SCI 415 – THE SEPARATION OF POWERS AND FEDERAL COURTS**

3 credits.

The goal of this class is to teach students how political institutions create and influence the federal courts. We will examine various concepts such as the creation of courts, the appointment process, jurisdiction, statutory interpretation, legislative encroachment into the judicial process, and other inter-institutional relationships.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**POLI SCI 416 – COMMUNITY POWER AND GRASS ROOTS POLITICS**

3 credits.

This course is designed to introduce students involved in volunteer or community activism in the Madison area to the literature on political power and community organizing. Students are required to conduct field research and write an analysis of their activities. Not open to students with credit for POLI SCI 428 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 104, 184, or POLI SCI/LEGAL ST/POLI SCI 217).

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**POLI SCI 417 – THE AMERICAN JUDICIAL SYSTEM**

3-4 credits.

Structure, process, and personnel of American courts; emphasis on the governmental and political consequences of court decisions for public policy-making.

**Requisites:** Sophomore standing and (POLI SCI 104, 184, or POLI SCI/LEGAL ST/POLI SCI 217)

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI/PUB AFFR 419 – ADMINISTRATIVE LAW**

3-4 credits.

Delegation of powers, elements of fair administrative procedure, judicial control over administrative determination. Not open to students with credit for POLI SCI 420 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 104, 184, or POLI SCI/LEGAL ST/POLI SCI 217).

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**POLI SCI 421 – THE CHALLENGE OF DEMOCRATIZATION**

3-4 credits.

Focusing on political philosophy and/or comparative institutions, cultures, economic systems and behavior, the course explores debates over what democracy is, the dynamics of breakthroughs from authoritarianism to democracy and the difficulties in consolidating fledgling democracies. Not open to students with credit for POLI SCI 505 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 160 or ILS 205) or (POLI SCI 209 taken prior to fall 2017).

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**POLI SCI/CHICLA/HISTORY 422 – LATINO HISTORY AND POLITICS**

3 credits.

Students will examine the historical, social, political, economic, and cultural experiences and conditions of Latinos, one of the largest US racial/ethnic minority groups. Course focus is on people who trace their origins to Mexico, the Caribbean, and countries of Latin America.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**POLI SCI/INTL ST 423 – SOCIAL MOBILIZATION IN LATIN AMERICA**

3 credits.

This course serves as an introduction to the major empirical and theoretical themes in the study of mobilization in Latin America.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**POLI SCI/GEN&WS 429 – GENDER AND POLITICS IN COMPARATIVE PERSPECTIVE**

3-4 credits.

Examines the gendered nature of political institutions around the world, including implications of women's exclusions from public life in a global context; the obstacles to women's greater participation; how women have gained greater voice in political leadership in some countries; and the differences women make in the political arena. Not open to students with credit for POLI SCI 643 prior to fall 2017

**Requisites:** Sophomore standing; not open to special students.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**POLI SCI/INTL ST 431 – CONTENTIOUS POLITICS**

3-4 credits.

Social movements, revolutions, and riots continually shape and reshape the world around us. The course will evaluate and apply dominant theoretical approaches to understanding contention through careful attention to empirical cases throughout the world.

**Requisites:** Sophomore standing and POLI SCI 140 or INTL ST 101 (or POLI SCI 103 taken prior to fall 2017) or graduate or professional standing

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**POLI SCI 432 – COMPARATIVE LEGAL INSTITUTIONS**

3-4 credits.

A comparison of the role of law and legal institutions in the U.S. and other countries, with a focus on the state's use of law to achieve its political goals. Not open to students with credit for POLI SCI 617 prior to fall 2017

**Requisites:** POLI SCI 120, 182, or POLI SCI/LEGAL ST/POLI SCI 217 or (POLI SCI 106 or 186 taken prior to fall 2017) or graduate standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**POLI SCI/RELIG ST 433 – RELIGION AND POLITICS**

3-4 credits.

Explores the relationships and interactions between religion and politics from a comparative perspective. The course will discuss the appropriate relationship between religion and state. In the first part of the course students will investigate the implications of the various ways in which the religion-state relationship have been involved in political conflict. Building on this, the course will then turn to several of the current issues in religion and politics asking: Why is religion apparently more important than ever despite an increasingly secular world? What is religious nationalism? What is fundamentalism? How can we explain the similarities and differences between religious fundamentalist movements across the globe? How should democratic states cope with the emergence of fundamentalist movements? In order to begin answering these questions, the course will integrate the theoretical frameworks we develop with explorations of the historical and local context of relevant case-studies from around the world.

**Requisites:** Sophomore standing and (POLI SCI 140, 120, RELIG ST 101, 102, 103, or INTL ST 101) or (POLI SCI 103 or 106 prior to fall 2017)

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**POLI SCI/INTL ST 434 – THE POLITICS OF HUMAN RIGHTS**

3-4 credits.

Examines the origins and development of human rights in international politics. The course discusses what human rights are, international human rights movements, the international search for justice after mass crimes, and international humanitarian intervention. Not open to students with credit for POLI SCI 317 prior to fall 2017

**Requisites:** Sophomore standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**POLI SCI/INTL ST 436 – POLITICAL INEQUALITY: MEASURES, CAUSES, EFFECTS AND REMEDIES**

3 credits.

In this course, we will review what political inequality is, and examine how scholars have measured it, and studied its causes, effects and remedies. The course will focus on inequalities in political participation and representation.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**POLI SCI 437 – NATIONALISM AND ETHNIC CONFLICT**

3-4 credits.

Nationalist conflict and ethnic contestation remain major components of global politics. Drawing on cases from around the world, this course explores why this is the case. In the process, we will address a number of crucial questions: What are nations and ethnic groups? Where do they come from? Why do they pick particular territories? How do they define who can be part of the group? Why are they so successful in mobilizing people to kill and be killed? In the course of answering these questions, the course investigates the interactions between nations and states, religion and nationalism, globalization, citizenship and minority rights, and the causes and solutions for national and ethnic conflict.

**Requisites:** Sophomore standing and (POLI SCI 120 or 182) or (POLI SCI 106 or 186 prior to fall 2017)

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**POLI SCI 438 – COMPARATIVE POLITICAL CULTURE**

3-4 credits.

In addition to political culture as conventionally defined, this course examines alternative political realities and the different understandings of politics that flow from them. It explores in detail the intersections between the realms of politics and culture in various selected regions of the world. Not open to students with credit for POLI SCI 657 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 120 or 182) or (POLI SCI 106 or 186 taken prior to fall 2017) or graduate standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**POLI SCI/INTL ST 439 – THE COMPARATIVE STUDY OF GENOCIDE**

3-4 credits.

Examines the phenomenon of genocide in the modern world. The class covers the concept of genocide, theories of why genocide occurs, and particular cases in the 20th and 21st centuries. Not open to students with credit for POLI SCI 318 prior to fall 2017

**Requisites:** Sophomore standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI/ECON/ENVIR ST/URB R PL 449 – GOVERNMENT AND NATURAL RESOURCES**

3-4 credits.

Problems of public policy and administration for development and use of natural resources.

**Requisites:** Junior standing**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2017**POLI SCI 455 – AFRICAN INTERNATIONAL RELATIONS**

3-4 credits.

Inter-state conflict and cooperation in Africa. Topics include Pan-Africanism, African Union, and regional integration; the international dimensions of regional crises; relations with great powers and with international financial institutions; and the role of non-state actors in international politics. Not open to students with credit for POLI SCI 362 prior to fall 2017

**Requisites:** Sophomore standing.**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**POLI SCI 460 – TOPICS IN POLITICAL PHILOSOPHY**

3-4 credits.

Investigation at an advanced level of selected problems in political philosophy.

**Requisites:** Sophomore standing and (POLI SCI 160 or ILS 205) or (POLI SCI 209 taken prior to fall 2017) or graduate standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**POLI SCI 461 – INTERDISCIPLINARY SEMINAR IN POLITICAL ECONOMY, PHILOSOPHY, & POLITICS**

3 credits.

An interdisciplinary seminar focusing on current policy debates designed to incorporate concepts and approaches from philosophy, political science, and economics.

**Requisites:** Consent of instructor**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**POLI SCI 463 – DECEPTION AND POLITICS**

4 credits.

This course deals with deception and truth telling as matters of fundamental political concern. Writers ranging from Plato to John Rawls have grappled with the problem of deception and truth-telling in politics. Flattery, hypocrisy, lying as a matter of state, lying as a matter of policy: philosophical explorations of these and related phenomena are at the center of this course.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**POLI SCI/GEN&WS 469 – WOMEN AND POLITICS**

3-4 credits.

Changing political roles, status, attitudes, and behaviors of women in contemporary society and of the political implications of changing female/male relationships.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**POLI SCI 470 – THE FIRST AMENDMENT**

3-4 credits.

An examination of the basic principles, purposes, and assumptions of First Amendment cases and literature, with attention to both historical and contemporary controversies.

**Requisites:** Sophomore standing and (POLI SCI 104, 184, or POLI SCI/LEGAL ST/POLI SCI 217)**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**POLI SCI 481 – HONORS SEMINAR ON RACE AND POLITICS IN THE UNITED STATES**

3 credits.

This course examines the sources and policy implications of racial division in American politics by analyzing a range of issues, such as affirmative action in the workplace and in higher education, the use of black majority districts as a means of enhancing representation of minority interests in Congress, differences in public opinion between whites and blacks, and issues concerning multi-racial and ethnic tensions. We will examine the historical background of race relations and the current policy debates, with a focus on trying to find common-ground solutions. The goal of this seminar is to stimulate critical thinking on this important issue, causing students to think about race and politics in new ways.

**Requisites:** Junior standing and declared in an honors program

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**POLI SCI 490 – STUDY ABROAD TOPICS IN POLITICAL SCIENCE: AMERICAN GOVERNMENT**

1-4 credits.

An umbrella course for variable credit American government courses taken on study abroad programs.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**POLI SCI 503 – CONTEMPORARY POLITICAL THOUGHT**

3-4 credits.

A survey of influential works and themes in contemporary political theory, considering such topics as distributive justice, democratic deliberation, multiculturalism, community, pragmatism, and the existential challenges of liberalism.

**Requisites:** Sophomore standing and (POLI SCI 160 or ILS 205) or (POLI SCI 209 taken prior to fall 2017)

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**POLI SCI 507 – HEALTH POLICY AND HEALTH POLITICS**

3-4 credits.

Analysis of health policy and health care politics. Includes the history of efforts to establish national health insurance, current proposals for reform, and the role of interest groups, public opinion, governmental institutions, and political leaders in health care policymaking. Not open to students with credit for POLI SCI 440 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 104, 184 or POLI SCI/LEGAL ST/POLI SCI 217).

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**POLI SCI 508 – AMERICAN NATIONAL SECURITY: POLICY AND PROCESS**

3-4 credits.

Policy-oriented course covering defense, domestic politics, defense economics, alliances, and arms control in the context of American national security in the post-World War II era. Not open to students with credit for POLI SCI 442 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 104, 184, or POLI SCI/LEGAL ST/POLI SCI 217).

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**POLI SCI 510 – POLITICS OF GOVERNMENT REGULATION**

3-4 credits.

Analysis of US regulatory policy from a political perspective. Introduction of regulation theories from political science, law and economics. Evaluation of theories in settings of environmental protection, workplace health and safety, financial, communications and other areas of regulation. Not open to students with credit for POLI SCI 446 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 104, 184, or POLI SCI/LEGAL ST/POLI SCI 217).

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**POLI SCI 511 – CAMPAIGN FINANCE**

3-4 credits.

Examination of campaign finance, including: the philosophical rationale behind campaign finance regulations, the history of regulatory frameworks, the influence of campaign contributions on decision making, campaign finance laws in other countries, and reform proposals. Not open to students with credit for POLI SCI 466 prior to fall 2017

**Requisites:** Sophomore standing and POLI SCI 104, 184, or LEGAL ST/ POLI SCI/LEGAL ST 217.

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**POLI SCI 514 – INTEREST GROUP POLITICS**

3-4 credits.

Internal politics of labor unions, business and professional associations, and farm groups; techniques employed in advancing their policies in government. Not open to students with credit for POLI SCI 472 prior to fall 2017

**Requisites:** Sophomore standing and POLI SCI 104, 184, or POLI SCI/ LEGAL ST/POLI SCI 217.

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**POLI SCI 515 – PUBLIC OPINION**

3-4 credits.

Formation of opinions within and among the political publics; their role in the development and practice of governmental policy. Not open to students with credit for POLI SCI 473 prior to fall 2017

**Requisites:** Sophomore standing.

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**POLI SCI 516 – POLITICAL COMMUNICATIONS**

3-4 credits.

Effects of communications on elite and mass political beliefs; the characteristics and functions of political language; politics and the media; symbolic politics. Not open to students with credit for POLI SCI 479 prior to fall 2017

**Requisites:** Sophomore standing.

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**POLI SCI/AFROAMER 519 – AFRICAN AMERICAN POLITICAL THEORY**

3-4 credits.

Explores a range of theories that African Americans have drawn upon to cope with and ameliorate their political circumstances in the United States within the specific parameters of political theory.

**Requisites:** Sophomore standing and (POLI SCI 160 or AFROAMER 151) or (POLI SCI 209 taken prior to fall 2017) or graduate or professional standing

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**POLI SCI 529 – ARAB-ISRAELI CONFLICT**

3-4 credits.

Examines the political, social, and economic aspects of the evolution of the Arab-Israeli conflict over time, and the theoretical and policy issues it raises. Not open to students with credit for POLI SCI 631 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 120, 140, 182 or INTL ST 101) or (POLI SCI 103, 106, or 186 taken prior to fall 2017) or graduate standing.

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**POLI SCI 534 – SOCIALISM AND TRANSITIONS TO THE MARKET**

3-4 credits.

Course focusing on state socialism as a political and economic system and the transition from that system in Eastern Europe, the former Soviet Union, China, and elsewhere. Not open to students with credit for POLI SCI 612 prior to fall 2017

**Requisites:** POLI SCI 120 or 182 or (POLI SCI 106 or 186 prior to fall 2017) or graduate standing.

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**POLI SCI 537 – ELECTORAL SYSTEMS AND REPRESENTATION**

3-4 credits.

The variety of institutions which are used to structure elections and representation around the world; voting rules, the structure of the legislature, cabinet formation, constitutional engineering and the art of political manipulation. Not open to students with credit for POLI SCI 656 prior to fall 2017

**Requisites:** POLI SCI 104, 120, 140, 160, 182, 184, POLI SCI/LEGAL ST/ POLI SCI 217 or INTL ST 101 or (POLI SCI 103, 106, 186, or 209 prior to fall 2017).

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**POLI SCI 538 – POLITICS AND POLICIES IN THE EUROPEAN UNION**

3-4 credits.

An advanced undergraduate seminar on the European Union that introduces students to the academic literature on EU politics and current debates in the field of EU studies. Topics covered include political institutions, decision- and policy-making, parties, elections, interest representation, political contestation, public opinion, enlargement, the "democratic deficit," and current events- most importantly the ongoing Euro crisis.

**Requisites:** Sophomore standing POLI SCI 120 or 182 (or POLI SCI 106 or 186 prior to Fall 2017)

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**POLI SCI 552 – MULTIVARIABLE STATISTICAL INFERENCE FOR POLITICAL RESEARCH**

3-4 credits.

Extensive treatment of multiple regression and its variants.

**Requisites:** POLI SCI 374 (or POLI SCI 551 prior to Fall 2017)

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**POLI SCI 560 – FEMINIST POLITICAL THEORY**

3-4 credits.

18th through 20th century feminist theory within the conventions and discourse of traditional political theory; contemporary feminism from a theoretical point of view.

**Requisites:** Sophomore standing and (POLI SCI 160 or ILS 205) or (POLI SCI 209 taken prior to Fall 2017)

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**POLI SCI 561 – RADICAL POLITICAL THEORY**

3-4 credits.

Explores in depth Marxist and other radical critiques of liberal democracy that have been influential in the 20th century. Students who have taken POLI SCI 513 prior to Fall 2017 may not enroll in this course. Not open to students with credit for POLI SCI 513 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 160 or ILS 205) or (POLI SCI 209 taken prior to fall 2017) or graduate standing.

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**POLI SCI 590 – STUDY ABROAD TOPICS IN POLITICAL SCIENCE: POLITICAL THEORY**

1-4 credits.

An umbrella course for variable credit political theory courses taken on study abroad programs.

**Requisites:** None

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**POLI SCI 601 – PROSEMINAR: TOPICS IN POLITICAL SCIENCE**

3 credits.

Intensive study and research in selected problems within the constituent fields of political science.

**Requisites:** Consent of instructor

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**POLI SCI 602 – WISCONSIN IN WASHINGTON ADVANCED PUBLIC POLICY COURSE**

4 credits.

The public policy process is structured argument and decision making within institutional contexts. This class introduces students to analytic frameworks for thinking about various aspects of this process. We do not study a single context or policy, but, rather, seek to understand how policies might succeed (or fail) in one context or another. The principal framework is institutional analysis, or the way in which formal and informal rules shape policies and their outcomes. Students will learn to perform institutional analysis as well as write a memorandum presenting such an analysis to a policymaker. Students will align their final projects to their personal and professional activities and/or their internship. The course will help students understand how policies can achieve durable impact, and how progress made through policies can be defended amid institutional pitfalls.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**POLI SCI/RELIG ST 618 – POLITICAL ISLAM**

3-4 credits.

Examines the political origins of contemporary Islamist movements and their impact upon Middle Eastern politics.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**POLI SCI 635 – COMPARATIVE POLITICS OF SPORT**

3-4 credits.

Covers the political economy, political culture, and the politics of identity (nationalism, race, ethnicity, social class, religion, and gender) that is usually associated with sport at both the highest and lowest levels of competition. Not open to students with credit for POLI SCI 616 prior to fall 2017

**Requisites:** Sophomore standing and (POLI SCI 120 or 182) or (POLI SCI 106 or 186 taken prior to fall 2017) or graduate standing.

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**POLI SCI 637 – COMPARATIVE POLITICAL ECONOMY**

3-4 credits.

Comparative approaches to the study of political economy and economic policy-making in capitalist democracies. Topics include theories of capitalism, the welfare state, trade, finance, and labor markets. Not open to students with credit for POLI SCI 611 prior to fall 2017

**Requisites:** (ECON 101, 102, or AAE 215) and (POLI SCI 120 or 182) or (POLI SCI 106 or 186 taken prior to fall 2017).

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**POLI SCI 640 – POLITICS OF JAPAN**

3-4 credits.

Political institutions and behavior in contemporary Japan. Social structure, values, and institutions as they have affected political development up to the present; the interaction of political culture, leadership, political parties, interest groups, ideology, and other forces in shaping political life in post-industrial Japan.

**Requisites:** Sophomore standing and (POLI SCI 120 or 182) or (POLI SCI 106 or 186 taken prior to fall 2017) or graduate standing

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**POLI SCI 652 – THE POLITICS OF DEVELOPMENT**

3-4 credits.

This course examines the political foundations, political dynamics, and political impact of economic development in the many regions collectively known as the "developing world" or "Third World".

**Requisites:** Sophomore standing and (POLI SCI 120 or 182) or (POLI SCI 106 or 186 taken prior to fall 2017)

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**POLI SCI 654 – POLITICS OF REVOLUTION**

3-4 credits.

An analysis of the causes, methods, processes, and consequences of revolutionary movements.

**Requisites:** Sophomore standing and (POLI SCI 120 or 182) or (POLI SCI 106 or 186 taken prior to fall 2017)

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**POLI SCI 659 – POLITICS AND SOCIETY: CONTEMPORARY EASTERN EUROPE**

3-4 credits.

Comparative analysis of the countries of contemporary Eastern Europe, including issues of democratization, economic transition, and social change; political crises and institutional adjustments; interactions between regimes and domestic social forces; prospect for future systemic change.

**Requisites:** Sophomore standing and (POLI SCI 120 or 182) or (POLI SCI 106 or 186 taken prior to fall 2017) or graduate or professional standing

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI/LCA 663 – SOUTH ASIA AND THE GLOBAL SYSTEM: ECONOMY, SECURITY & CULTURE**

3-4 credits.

Examines the effect of international forces on some countries of the South Asia region (India, Pakistan, Sri Lanka, and Afghanistan) as well as how state and societal responses affect the prospects of security, prosperity, and cultural integration in the world.

**Requisites:** Sophomore standing and (POLI SCI 120 or 182) or (POLI SCI 106 or 186 taken prior to fall 2017) or graduate standing

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**POLI SCI/JEWISH 665 – ISRAELI POLITICS AND SOCIETY**

3-4 credits.

Course provides historical and analytical understanding of Israeli internal political life and institutions. Attention will be paid to political culture, coalition formation and ethnic politics as they are manifested in Israeli politics. The effect of regional conflict upon Israel's domestic politics will also be considered.

**Requisites:** Sophomore standing and (POLI SCI 104, 120, 140, 182, 184, INTL ST 101 or POLI SCI/LEGAL ST/POLI SCI 217) or (POLI SCI 103, 106, or 186 taken prior to fall 2017) or graduate standing

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**POLI SCI 681 – SENIOR HONORS THESIS**

3-4 credits.

Honors in the major in Political Science thesis research and writing.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**POLI SCI 682 – SENIOR HONORS THESIS**

3-4 credits.

Honors in the Major in Political Science thesis research and writing (continuation of POLI SCI 681).

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI 683 – SENIOR HONORS THESIS SEMINAR**

3 credits.

A class for honors students writing their senior honors thesis within a seminar format. Focus is on conceptualization, research design, writing of the thesis, and relevant issues of political science. Only senior majors writing honor thesis.

**Requisites:** Enrollment in Honors Progm; Sr st; cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI 684 – SENIOR HONORS THESIS SEMINAR**

3 credits.

A class for honors students writing their senior honors thesis within a seminar format. Focus is on conceptualization, research design, writing of the thesis, and relevant issues of political science. Continuation of 683. Seniors only.

**Requisites:** Enrollment limited to senior standing and completion of Poli Sci 683 and admission to an Honors Program

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**POLI SCI 685 – HONORS RESEARCH INTERNSHIP IN POLITICAL SCIENCE**

1-3 credits.

The internship program is designed to provide honor students with opportunities to work closely with faculty on research projects of mutual interest.

**Requisites:** Political science major; in honors prgm; cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**POLI SCI 690 – STUDY ABROAD TOPICS IN POLITICAL SCIENCE: COMPARATIVE POLITICS**

1-4 credits.

An umbrella course for variable credit comparative politics courses taken on study abroad programs.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**POLI SCI 691 – SENIOR THESIS**

3 credits.

For students writing a thesis in consultation with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**POLI SCI 692 – SENIOR THESIS**

3 credits.

For students writing a thesis in consultation with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI 698 – DIRECTED STUDY**

1-4 credits.

Directed study projects for juniors and seniors as arranged with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**POLI SCI 699 – DIRECTED STUDY**

1-4 credits.

Directed study projects for juniors and seniors as arranged with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**POLI SCI 700 – INTRODUCTION TO INTERNATIONAL POLITICS**

1 credit.

This course is designed to introduce students to the essential theoretical approaches to international politics, to explore important historical and contemporary questions and debates in international affairs, and to teach students to think critically about international relations. The course also introduces students to the skills and methods necessary for successful online learning.

**Requisites:** Declared in the International Politics and Practice Capstone Certificate

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**POLI SCI 701 – AMERICAN FOREIGN POLICY**

3 credits.

The course provides a historical and analytical examination of U.S. Foreign Policy since World War II. The course is divided into three main topics: (1) the history of U.S. Foreign Policy since World War II, (2) an examination of the institutions and processes that guide foreign policy formation and implementation, and (3) a review and analysis of salient foreign policy challenges facing the U.S. today.

**Requisites:** POLI SCI 700 or concurrent enrollment

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

**POLI SCI 702 – INTERNATIONAL POLITICAL ECONOMY**

3 credits.

Analyzes the interaction of politics and economics in the international arena, both historically and in the contemporary era of globalization. Focuses on international trade, monetary, and financial relations in both developed and developing economies.

**Requisites:** POLI SCI 700 or concurrent enrollment

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**POLI SCI 703 – INTERNATIONAL ORGANIZATIONS AND LAW**

3 credits.

This course is intended to familiarize students with some of the major international organizations (IOs) and regimes of international law that have a profound effect on patterns of international cooperation and conflict.

**Requisites:** POLI SCI 700 or concurrent enrollment

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2015

**POLI SCI 704 – INTERNATIONAL SECURITY**

3 credits.

The course is a survey of security studies in international relations. The course is organized by empirical topic, with a mix of theoretical and empirical readings for most weeks. Topics include arms competition, the causes of war, war termination, third party intervention and conflict resolution, alliances, crisis bargaining, cooperation, deterrence, proliferation and terrorism. The emphasis will be on recent work.

**Requisites:** POLI SCI 700 or concurrent enrollment

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**POLI SCI/HISTORY/PUB AFFR 724 – THE POLITICS OF PERSUASION: SOFT POWER IN EUROPE AND THE U.S.**

1-3 credits.

How powerful is non-military power? What are its vectors and its limits? International relations theorists have defined soft power as "the ability to get what you want through attraction rather than coercion." This graduate seminar will put this notion to the test. We will investigate how elites, interest groups, religious bodies, and nation-states seek to exercise hegemony in the international order through non-violent means. How was "soft power" implemented on the ground in the 20th century- and how did its use transform international relations? To probe these questions, we will focus on a series of case studies in European and U.S. international history. Topics covered include the expansion of capitalism and consumer culture; the globalization of international legal instruments and human rights claims; and de-secularization, religious radicalism, and counter-insurgency. In the process of analyzing our case studies, we will refine our analytical vocabulary. Drawing on recent work in international relations, political theory, and international history, we will probe the meaning and utility of concepts like normative power, hegemony, cultural capital, and public diplomacy.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**POLI SCI/GEOG/URB R PL 742 – INTERNATIONAL DEVELOPMENT PLANNING THEORY**

3 credits.

Provides students with a historical and theoretical foundation for critical thinking about international development planning.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2008**POLI SCI 799 – DIRECTED STUDY**

1-4 credits.

Directed Study restricted to graduate students. Intended for master's level students.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**POLI SCI 800 – POLITICAL SCIENCE AS A DISCIPLINE AND PROFESSION**

1 credit.

Describes and evaluates major approaches used in political science. Explores issues related to professional development and political science careers.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**POLI SCI 801 – RESEARCH AND WRITING SEMINAR**

3 credits.

Intended for PhD students in political science to develop a seminar or conference paper into a publishable journal article. Emphasis on editing, revising, and peer feedback.

**Requisites:** Declared in Political Science doctoral program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**POLI SCI/FRENCH/GERMAN/HISTORY/SOC 804 – INTERDISCIPLINARY WESTERN EUROPEAN AREA STUDIES SEMINAR**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**POLI SCI 811 – INTRODUCTION TO STATISTICAL COMPUTING IN POLITICAL SCIENCE**

1-3 credits.

Introduction to the issues of statistical computing in political science using statistical packages such as STATA and R with emphasis on developing sound practices for organizing data, protocols, and results in empirical research. Not open to students with credit for POLI SCI 553 prior to fall 2017

**Requisites:** Graduate or professional standing.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**POLI SCI 812 – INTRODUCTION TO STATISTICAL METHODS IN POLITICAL SCIENCE**

3 credits.

Introductory statistics course for Ph.D. students. Emphasis on probability theory, inference, and the foundations of multivariate least squares and maximum likelihood.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**POLI SCI 813 – MULTIVARIABLE STATISTICAL INFERENCE FOR POLITICAL RESEARCH**

3 credits.

Extensive treatment of multiple regression and its variants.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017



**POLI SCI 814 – SOCIAL IDENTITIES: DEFINITION AND MEASUREMENT**

3 credits.

Analyzes the concept of social identities with a focus on definition, comparison, and measurement. Explores a range of theories as well as methodological techniques for measurement. Examines classic works on race, ethnic, national, class, gender, and religious identities.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**POLI SCI 817 – EMPIRICAL METHODS OF POLITICAL INQUIRY**

3 credits.

Acquaints students with a wide variety of research methods used to analyze political phenomena, emphasizing both quantitative and qualitative approaches.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**POLI SCI 818 – MAXIMUM LIKELIHOOD ESTIMATION**

3 credits.

Develops the theory of maximum likelihood estimation and applies it to models for discrete and limited dependent variables common to political and social science data.

**Requisites:** POLI SCI 812 and 813**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**POLI SCI 821 – MASS POLITICAL BEHAVIOR**

3 credits.

An empirical analysis of the role of mass publics in political life and the factors which determine the formation and expression of political beliefs and attitudes.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**POLI SCI 823 – POLITICAL PSYCHOLOGY**

3 credits.

The relationship between psychological processes and political thinking and behavior. Topics may include the development and functioning of mass and elite level ideology and behavior, political communication, decision-making, perception, and the impact of political experiences on psychological states and processes.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**POLI SCI 825 – RACE AND POLITICS IN THE UNITED STATES**

3 credits.

Analysis of the role of race, class and ethnicity in the political process. Evaluation of theories from political science, economics and sociology. Topics may include policy analysis, political organizations, immigration, political behavior and culture.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**POLI SCI 826 – THE LEGISLATIVE PROCESS**

3 credits.

Analysis of legislative process and the role of the legislature in the political system, emphasizing current research.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**POLI SCI 827 – INTEREST GROUPS IN AMERICAN POLITICS**

3 credits.

The formation, structure, activities and power of interest groups in the United States with comparisons to interest groups in other countries.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2012**POLI SCI 828 – THE CONTEMPORARY PRESIDENCY: ISSUES AND APPROACHES**

3 credits.

Current topics of research interest on the American presidency. Alternative approaches and methods for the study of the presidency.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**POLI SCI/JOURN 829 – POLITICAL COMMUNICATION**

3 credits.

This course examines the role of communication in American politics. Topics covered include the communication of politics (e.g., communication by politics elites, effects of mass media and interpersonal communication on political attitudes) as well as the politics of communications (regulation of political communication, policy issues, etc.).

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017



**POLI SCI 830 – CONSTITUTIONAL THEORY**

3 credits.

A review of a variety of modern approaches to constitutionalism and its challenges from a theoretical and comparative perspective.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**POLI SCI 831 – CONCEPTS IN POLITICAL THEORY**

3 credits.

Studies in normative, analytical, or historical thought about politics.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

**POLI SCI 833 – TOPICS IN ANCIENT POLITICAL THOUGHT**

3 credits.

Considers varied topics in Greek, Roman, early Christian and Medieval political theory; topics in non-Western ancient and medieval thought may also be offered.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

**POLI SCI/A A E 835 – GAME THEORY AND POLITICAL ANALYSIS**

3 credits.

An introduction to the tools of game theoretic analysis, with reference to the use of game theory in political science. Intended for those desiring a basic familiarity with the theory, and for those planning further work in formal modeling.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**POLI SCI 836 – FORMAL MODELS OF DOMESTIC POLITICS**

3 credits.

Provides an overview of formal, i.e., game-theoretic, models of domestic politics. This course builds directly upon the material presented in Political Science 835.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI 837 – FORMAL MODELS OF INTERNATIONAL RELATIONS**

3 credits.

Provides an overview of the formal theory literature in international relations, including international security and international political economy.

**Requisites:** A A E/POLI SCI/A A E 835

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**POLI SCI 839 – METHODS OF POLITICAL THEORY**

3 credits.

An overview of the central disciplinary approaches to interpreting, teaching, and writing about philosophical texts.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI 840 – COMPARATIVE POLITICAL ECONOMY**

3 credits.

Survey of field of comparative political economy and in-depth study of political economy of democratic and non-democratic capitalist systems. Key themes include: business and labor relations, globalization and its impact on domestic political economies, rise of emergent powers.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**POLI SCI 853 – COMPARATIVE POLITICAL INSTITUTIONS**

3 credits.

Comparative theoretical and empirical analysis of political institutions, including electoral systems, legislatures, executives, executive-legislative relationships, political parties, party systems, federalism, economic governance, and link between institutions and internationalization.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**POLI SCI 854 – NATIONALISM AND ETHNIC CONFLICT**

3 credits.

Comparative analysis of nationalism, national identity, and ethnicity and their impact on domestic and international conflict. Examines relationship between nationality, citizenship, and minority rights; territoriality and identity, contemporary religious nationalism; relationship between globalization and nationalism.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POLI SCI 855 – POLITICS AND CULTURE IN COMPARATIVE PERSPECTIVE**

3 credits.

Scholarly approaches linking cultural phenomena. Both theoretical and empirical patterns of politics and culture in several regions. The course also explores systematic linkages between politics and culture, evaluates common ways of studying them, and assesses their contemporary importance.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**POLI SCI 856 – FIELD SEMINAR IN COMPARATIVE POLITICS**

3 credits.

A broad introduction to the field of comparative politics. It combines a theory-driven approach with a problem-driven approach to analyze key themes in comparative politics. Four paradigms in comparative politics—structural, cultural, rational-choice and institutional—will be reviewed.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**POLI SCI 857 – INTERNATIONAL RELATIONS THEORIES**

3 credits.

Analysis of the major theories on the functioning of the international political system and the behavior of nations within it.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**POLI SCI 861 – CHALLENGES OF DEMOCRATIZATION**

3 credits.

Explores the problems of crafting democracies in the broadest comparative perspectives to comprehend the benefit of democracy. Covers democratic drafting in terms of center/federalism, president/parliament, voting systems, party systems, civilian control of the military, etc.; as these relate to particulars of religion, region, language and other communalist identity.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2009**POLI SCI 862 – STATE AND SOCIETY IN COMPARATIVE PERSPECTIVE**

3 credits.

Reviews a range of approaches that focus on civil society, social movements, ethnic and religious based mobilization, as well as gender and class based approaches to state-society relations.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**POLI SCI 863 – THE JUDICIAL PROCESS**

3 credits.

Analysis of the decision-making processes of judicial institutions and the behavior of judges, litigants, lawyers, and other actors in the judicial process. Strong emphasis on the relationship between judicial and other policy-making institutions and actors.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2012**POLI SCI 864 – INTERNATIONAL POLITICAL ECONOMY**

3 credits.

Analysis of key classical and contemporary theories in international political economy.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**POLI SCI 865 – THE SUPREME COURT AND THE CONSTITUTION IN AMERICAN POLITICS**

3 credits.

Analysis of the development of major constitutional doctrines and their impact on politics and public policy in the United States.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**POLI SCI/ENVIR ST/PUB AFFR 866 – GLOBAL ENVIRONMENTAL GOVERNANCE**

3 credits.

In-depth examination of the political and policy challenges posed by global environmental degradation. Analysis of international institutions for managing the global environment.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017

**POLI SCI/PUB AFFR 871 – PUBLIC PROGRAM EVALUATION**

3 credits.

Compares the conceptual, statistical, and ethical issues of experimental, quasi-experimental and non-experimental designs for program evaluation. Definitions of outcomes, sample size issues, statistical biases in measuring causal effects of programs, and the reliability of findings will be emphasized using case studies selected from current public programs.

**Requisites:** PUB AFFR 818**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**POLI SCI 873 – AMERICAN POLITICAL PARTIES**

3 credits.

Reviews major approaches to analyzing political parties and understanding their developmental changes. Examines the parties in operation and the relationship of parties to the state and society.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**POLI SCI/PUB AFFR/URB R PL 874 – POLICY-MAKING PROCESS**

3 credits.

An intensive study of policy-making processes involved in the formulation of public policies.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**POLI SCI/PUB AFFR 875 – PUBLIC PERSONNEL ADMINISTRATION**

3 credits.

Analysis of personnel policies and practices in the public sector and examination of patterns of interaction between political executives, personnel professionals, public employees, and interest groups in the development of personnel policies. Compares problems and approaches of different countries as well as those of the various levels of government in the United States.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**POLI SCI/PUB AFFR/URB R PL 878 – PUBLIC MANAGEMENT**

3 credits.

Role of administration in American government; problems of organization, bureaucracy and control; public policy as the output of the administrative process.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**POLI SCI 881 – AMERICAN POLITICAL DEVELOPMENT**

3 credits.

Examination of critical transformations in the structure and activities of the U.S. national state; political models of economic development; periodization versus non-periodization approaches; topics include liberalism and republicanism, southern exceptionalism, labor, race, populism, war and statebuilding; construction of the corporate economy.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2012**POLI SCI/PUB AFFR 885 – ADVANCED PUBLIC MANAGEMENT: CRAFT, CONSTRAINTS AND ACCOUNTABILITY**

3 credits.

Examines how managers in public and not-for-profit agencies can secure and utilize legal authority, human resources, and funds to accomplish organizational goals. Includes strategies for establishing and maintaining effective external relations and for working through other organizations to accomplish objectives.

**Requisites:** POLI SCI/PUB AFFR/URB R PL/POLI SCI/PUB AFFR 878**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**POLI SCI/PUB AFFR/URB R PL 890 – FEDERAL BUDGET AND TAX POLICY AND ADMINISTRATION**

3 credits.

Focuses on national budget and tax policy and administration, and the parallel processes at the state and local levels. Included are discussions of: decision-making theories; budget and tax policy; and analysis of normative and empirical criteria and analytical techniques for assessing alternative policy proposals.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016

**POLI SCI 900 – TOPICS IN POLITICAL SCIENCE**

1-3 credits.

An umbrella course for variable credit topic courses, such as colloquia series, workshops, intensive summer courses, half-semester courses, etc.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**POLI SCI 904 – SEMINAR-AMERICAN POLITICS**

3 credits.

In-depth examination of selected topics on American politics and governmental institutions.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**POLI SCI 917 – TIME SERIES ANALYSIS**

3 credits.

This course introduces students to time series methods and applications, including ARMA models, error corrections models and reduced form specifications. Course also discusses co-integration and fractional integration.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**POLI SCI 919 – SEMINAR-ADVANCED METHODOLOGY**

3 credits.

Design of research and adaptation of advanced methods to solve particular methodological problems in original analyses of political data.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**POLI SCI 931 – SEMINAR-POLITICAL THEORY**

3 credits.

Analysis of and research on problems of theorizing in and about political life.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**POLI SCI/GEN&WS 933 – FEMINIST POLITICAL THEORY**

3 credits.

Focuses on how specific schools of feminist thought redefine the political, spanning historical and contemporary feminist political theory.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**POLI SCI 940 – DOMESTIC POLITICS OF INTERNATIONAL RELATIONS**

3 credits.

Examines how domestic institutions and processes influence the international system. Also examines how international forces influence domestic politics in the areas of foreign policy, international political economy and security.

**Requisites:** POLI SCI 857**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**POLI SCI 945 – SEMINAR-NATIONAL SECURITY AFFAIRS**

3 credits.

Contemporary military strategy, the interaction of military and political factors in international politics, and the processes and content of defense policies, with emphasis on the United States.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**POLI SCI 948 – SEMINAR: TOPICS IN COMPARATIVE POLITICS**

3 credits.

Research seminar on specific topics in comparative politics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**POLI SCI 949 – SEMINAR-POST COMMUNIST POLITICS**

3 credits.

Comparative study of political processes in the former Soviet Union and communist Eastern Europe states, focusing on the transition from and the continuing legacies of the communist experience; methodological issues in the study of post-communist politics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016

**POLI SCI 959 – SEMINAR-INTERNATIONAL ORGANIZATION**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**POLI SCI 960 – SEMINAR-INTERNATIONAL RELATIONS**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**POLI SCI 961 – SEMINAR-AFRICAN POLITICS**

3 credits.

Comparative study of political processes in the emerging states of Africa; emphasis on tropical African states with some consideration to the Mahgreb and Southern Africa; methodological problems in the study of African politics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2008**POLI SCI 962 – SEMINAR: LATIN-AMERICAN POLITICS**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**POLI SCI/URB R PL 969 – SEMINAR-TRENDS AND ISSUES IN PUBLIC PLANNING**

3 credits.

Critical review of recent and current thought on the nature and role of planning in governmental and quasi-governmental agencies with particular attention to the adverse critics of planning and the issues they raise about the policy formulation process in public affairs.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**POLI SCI/A A E/ANTHRO/C&E SOC/GEOG/HISTORY/LACIS/PORTUG/SOC/SPANISH 982 – INTERDEPARTMENTAL SEMINAR IN THE LATIN-AMERICAN AREA**

1-3 credits.

Interdisciplinary inquiry in Latin American society and culture.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**POLI SCI/AFRICAN/ANTHRO/ECON/GEOG/HISTORY 983 – INTERDEPARTMENTAL SEMINAR-AFRICAN STUDIES**

3 credits.

Interdisciplinary inquiry in African society and culture.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**POLI SCI 986 – POLITICAL THEORY WORKSHOP**

1-3 credits.

Presentation and evaluation of political theory research in progress by members of the workshop and invited speakers.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**POLI SCI 987 – COMPARATIVE POLITICS COLLOQUIUM**

1-3 credits.

Presentation and evaluation of comparative politics research in progress by members of the workshop and invited speakers.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**POLI SCI 988 – INTERNATIONAL RELATIONS WORKSHOP**

1-3 credits.

Presentation and evaluation of International Relations research in progress by members of the workshop and invited speakers.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**POLI SCI 989 – AMERICAN POLITICS WORKSHOP**

1-3 credits.

Presentation and evaluation of American politics research in progress by members of the workshop and invited speakers.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**POLI SCI 990 – RESEARCH AND THESIS**

1-3 credits.

Under the direction of faculty.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**POLI SCI 999 – INDEPENDENT WORK**

2-3 credits.

Under the direction of a staff member.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## POPULATION HEALTH SCIENCES (POP HLTH)

**POP HLTH 155 – INTRODUCTION TO THE BIOLOGY OF AGING**

2 credits.

**Requisites:** One sem of gen biology at college level

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**POP HLTH 370 – INTRODUCTION TO PUBLIC HEALTH: LOCAL TO GLOBAL PERSPECTIVES**

3 credits.

Introduces students to the principles of public health. Using local and global health problems as examples, students are introduced to epidemiology and evidence-based public health, with a focus on closing the gap between science and practice.

**Requisites:** Nutr Sci 375 or a college-level, introductory science or biology crse.

**Course Designation:** Breadth - Either Social Science or Natural Science Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**POP HLTH 375 – INTRODUCTION TO PUBLIC HEALTH**

1 credit.

Introduces concepts and methods of epidemiology, health services research, health policy and financing, disease prevention, and public health. Intended as an overview for undergraduates of all disciplines and who might consider advanced degrees in population health sciences or public health.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**POP HLTH/C&E SOC/SOC 380 – CONTEMPORARY POPULATION PROBLEMS FOR HONORS**

3 credits.

This course is designed to identify, examine the nature and evaluate the evidence regarding key population problems affecting modern societies in the developed and developing world. The course emphasizes the development of demographic models as a tool to frame, define and investigate these problems. Examples of problems studied include: relations between population growth and environment, population growth and socioeconomic development, population and emergence of new diseases.

**Requisites:** Honors, and Soc/Community Environmental SOC/ C&E SOC 360 or equivalent or consent of instructor

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**POP HLTH/B M I 451 – INTRODUCTION TO SAS PROGRAMMING FOR POPULATION HEALTH**

2 credits.

Use of the SAS programming language for the management and analysis of biomedical data.

**Requisites:** Pop Hlth grad student or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POP HLTH/ENVIR ST 471 – INTRODUCTION TO ENVIRONMENTAL HEALTH**

3 credits.

Impact of environmental problems on human health; biological hazards to human health from air and water pollution; radiation; pesticides; noise; problems related to food, occupation and environment of the work place; accidents. Physical and chemical factors involved.

**Requisites:** A course in biology; Jr st

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**POP HLTH/ENVIR ST 502 – AIR POLLUTION AND HUMAN HEALTH**

3 credits.

Toxicologic, controlled and epidemiologic studies on major air pollutants. Overview of study methods, lung physiology and pathology; air pollution sources, types, meteorology, sampling methods, controls and regulations.

**Requisites:** Jr st, a course in biology

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POP HLTH 503 – PUBLIC HEALTH AND HUMAN RIGHTS: THE CARE OF VULNERABLE CHILDREN IN AFRICA**

1 credit.

Students will understand, critique and constructively engage with global efforts to meet the needs of orphans and other children who are in highly vulnerable situations in Africa. Exploring the tensions and synergies between public health and human rights approaches, this course will prepare students for research, practice or advocacy. It is open to upper level undergraduates (junior and senior standing), graduate students, MPH students, and special students. Approved elective for the Certificate in Global Health.

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POP HLTH 504 – HEALTH CARE QUALITY IMPROVEMENT IN LOW RESOURCE SETTINGS**

1 credit.

This course will present concepts of quality improvement and will trace the introduction and evolution of QI efforts in low-income countries, and among vulnerable populations worldwide. Students will get hands on training in QI methods and tools, and will explore how QI can strengthen health systems. Further, they will develop an understanding of how QI efforts can be linked to larger policy initiatives such as improved governance, task shifting within health care services, rights-based approaches to health care, and realization of the MDGs. This course will provide a useful introduction to the field of quality improvement and could be used to develop preliminary plans for quality improvement studies in a practice setting. It is open to graduate students, MPH students, and upper level undergraduate students (juniors and seniors). It is also open to special students who are enrolled in the Capstone Certificate in Global Health.

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**POP HLTH/NURSING 525 – NURSING LEADERSHIP FOR GLOBAL HEALTH**

2-3 credits.

This course is designed to prepare undergraduate and graduate nursing students for leadership in global health (GH) by examining their GH goals in a course framework that integrates knowledge from nursing with contemporary GH knowledge. Directed toward improving health of the global population as a whole, the framework addresses health trends, practice frameworks, the ecological model, ethics, nursing leadership roles, concepts of partnership and evidence-based practice. Students' learning activity will be tailored to their program level (undergraduate/graduate), their interests and the number of credits they register for.

**Requisites:** Junior standing and declared in a Nursing program

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**POP HLTH/ECON/PUB AFFR 548 – THE ECONOMICS OF HEALTH CARE**

3-4 credits.

Analysis of the health care industry. Markets for hospitals and physicians' care, markets for health manpower, and the role of health insurance.

**Requisites:** ECON 301, ECON 311, or PUB AFFR 880

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POP HLTH/B M I 551 – INTRODUCTION TO BIOSTATISTICS FOR POPULATION HEALTH**

3 credits.

Course designed for population health researcher. Topics include descriptive statistics, elementary probability, probability distributions, one- and two-sample normal inference (point estimation, hypothesis testing, confidence intervals), power and sample size calculations, one- and two-sample binomial inference, underlying assumptions and diagnostic work.

**Requisites:** Declared in the Population Health or Epidemiology graduate program; not open to students who have taken BMI/STAT/B M I 511 or BMI/STAT/B M I 541

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POP HLTH/B M I 552 – REGRESSION METHODS FOR POPULATION HEALTH**

3 credits.

Introduction to the primary statistical tools used in epidemiology and health services research; multiple linear regression, logistic regression and survival analysis.

**Requisites:** Pop Hlth/BMI 451 and Pop Hlth/BMI 551 ; or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**POP HLTH/HIST SCI/MED HIST 553 – INTERNATIONAL HEALTH AND GLOBAL SOCIETY**

3 credits.

Major problems in international health from 1750 to the present. Focus on disease epidemiology and ecology; political economy of health; migration; quarantine; race, ethnicity, and health care; international health research; cross-cultural healing; mental and maternal health; growth of international health organizations.

**Requisites:** Jr or Sr st, or cons inst**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**POP HLTH/ENVIR ST 560 – HEALTH IMPACT ASSESSMENT OF GLOBAL ENVIRONMENTAL CHANGE**

3 credits.

Covers contemporary methods of impact assessment in a framework to address global environmental health threats (e.g., global climate change, deforestation and biodiversity loss, and urban sprawl). Issues dovetail well (but do not overlap) with Introduction to Environmental Health.

**Requisites:** Junior standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**POP HLTH/M M & I 603 – CLINICAL AND PUBLIC HEALTH MICROBIOLOGY**

5 credits.

Lecture-seminar sessions. Lectures (44) describe microorganisms of clinical and public health significance. Seminar sessions (14) discuss issues and controversies of specimen receiving and processing, bacteremia, serodiagnosis of infectious agents, antimicrobial susceptibility testing, laboratory management, and novel approaches to detect infectious agents.

**Requisites:** A course in microbiology**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**POP HLTH/NUTR SCI 621 – INTRODUCTION TO NUTRITIONAL EPIDEMIOLOGY**

1 credit.

Techniques used to evaluate relationships of diet to health and disease in human populations; integration of knowledge gained with results of animal and clinical studies toward understanding dietary risk or protective factors for disease. Includes advanced diet assessment and basic epidemiologic approaches.

**Requisites:** STAT 301 or equiv Nutr Sci 332 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**POP HLTH/M&ENVTOX/MEDICINE/ONCOLOGY/PATH/PHM SCI/PHMCOL-M 625 – TOXICOLOGY I**

3 credits.

Basic principles of toxicology and biochemical mechanisms of toxicity in mammalian species and man. Correlation between morphological and functional changes caused by toxicants in different organs of the body.

**Requisites:** BIOCHEM 501, PHYSIOL 335, PATH 404 and PHM SCI 401**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**POP HLTH/M&ENVTOX/MEDICINE/PATH/PHM SCI/PHMCOL-M 626 – TOXICOLOGY II**

3 credits.

Survey of the basic methods and fundamental biochemical mechanisms of toxicity. Toxicity in mammalian organ systems, techniques for evaluating toxicity, as well as mechanisms of species specificity, and environmental interactions (with toxicant examples) are presented.

**Requisites:** MENVTOX/MEDICINE/ONCOLOGY/PATH/PHMCOL-M/PHM SCI/POP HLTH/M&ENVTOX/MEDICINE/ONCOLOGY/PATH/PHM SCI/PHMCOL-M 625**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**POP HLTH 640 – FOUNDATIONS IN GLOBAL HEALTH PRACTICE**

1 credit.

A one-credit interdisciplinary course designed to prepare graduate students in the health sciences and related fields, as well as health professionals who are special students, for specific global health field experiences.

**Requisites:** Grad or health professional stdts; Jr or Sr st, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**POP HLTH 644 – INTERDISCIPLINARY PERSPECTIVES ON GLOBAL HEALTH AND DISEASE**

1 credit.

Addresses a variety of global health topics through study of a specific country. Students will consider health data, health systems, historical and cultural information, and concepts of cultural competence and cultural humility. Prepares students for Pop Hlth 645, Global Health Field Study.

**Requisites:** Grad standing or health professional student; or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017

**POP HLTH 645 – GLOBAL HEALTH FIELD COURSE**

1-6 credits.

A faculty-led field experience that exposes students to global health work through discussion, observational activities and participation in applied public health activities. Students will gain knowledge about health and disease, learn and practice cross-cultural skills, and explore interdisciplinary approaches to health.

**Requisites:** Varies by section**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014**POP HLTH 650 – SPECIAL TOPICS**

1-6 credits.

Variable content course. Refer to Timetable or contact department for specific list of course sections, titles, prerequisites, and instructors.

**Requisites:** Varies by topic**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**POP HLTH/B M I 651 – ADVANCED REGRESSION METHODS FOR POPULATION HEALTH**

3 credits.

Extension of regression analysis to observational data with unequal variance, unequal sampling and propensity weights, clusters and longitudinal measurements, using different variance structures, mixed linear models, generalized linear models and GEE. Matrix notation will be introduced and underlying mathematical and statistical principles will be explained. Examples use data sets from ongoing population health research.

**Requisites:** Pop Hlth 798 and Pop Hlth 552; or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**POP HLTH/B M I 652 – TOPICS IN BIOSTATISTICS FOR EPIDEMIOLOGY**

1-3 credits.

Each module will adopt an in-depth focus on a biostatistical method of particular relevance to epidemiology such as measurement error, missing data, intermediate variables, complex study designs, meta-analysis, splines, propensity scores, causal inference, spatial statistics and resampling. One or more modules will be offered every spring semester.

**Requisites:** B M I/POP HLTH/B M I 551, B M I/POP HLTH/B M I 552, and (STAT 850 or B M I/POP HLTH/B M I 651)**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**POP HLTH 660 – COMMUNICATING PUBLIC HEALTH INFORMATION EFFECTIVELY**

1 credit.

Designed to improve public health professionals' abilities to communicate with different audiences such as news media, legislators, and the public. Students learn strategies for health communication based on scientific recommendation and apply these skills by planning and executing communication activities used in the field.

**Requisites:** Grad st or health professional student; or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**POP HLTH 661 – STATE LEVEL HEALTH SYSTEM, PAYMENT, AND COVERAGE REFORM**

1 credit.

Provide and overview of the state health policy initiatives in health care coverage, access, costs, trends in public and private sectors, and current issues and debates about health care reform nationally and in Wisconsin.

**Requisites:** MPH student or Grad student**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2015**POP HLTH 662 – INTRODUCTION TO SOCIAL MARKETING IN PUBLIC HEALTH**

1 credit.

The course teaches students about social marketing and applications that apply to public health. It combines didactic presentations with group discussions and in-class exercises. Students are expected to read all assigned materials and complete a group assignment for oral and written presentation. After completion, students will be able to define social marketing, identify appropriate uses of social marketing, apply a model for developing, implementing and evaluating a social marketing campaign.

**Requisites:** Declared in Master of Public Health program or graduate standing only**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**POP HLTH 664 – PREVENTION OF OVERWEIGHT AND OBESITY**

2 credits.

This course is intended to provide students with theoretical and practical knowledge to develop, implement, and evaluate obesity prevention interventions. This course will emphasize pediatric obesity prevention with a focus on nutrition and physical activity health behaviors and environments.

**Requisites:** Declared in Master of Public Health program or graduate standing only**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015

**POP HLTH 699 – INDEPENDENT READING**

1-5 credits.

To gain additional information on specific research problems or advanced training in the areas covered by Prev Med staff.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**POP HLTH/I SY E 703 – QUALITY OF HEALTH CARE: EVALUATION AND ASSURANCE**

1-3 credits.

Implementation, oversight, and management of quality-oriented activities in health care settings. Overview of current and historical activities, approaches, and issues confronting health care related to quality assessment, assurance, and improvement.

**Requisites:** Major or minor in population health, or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**POP HLTH/MEDICINE/NURSING 705 – SEMINAR IN INTERDISCIPLINARY CLINICAL RESEARCH EVIDENCE**

2 credits.

Exploration of interdisciplinary clinical research questions including strategies for assessing the evidence and conducting a systematic review of research. An interdisciplinary perspective is emphasized throughout the course.

**Requisites:** POP HLTH/SOC/POP HLTH 797 and BMI/STAT/B M I 542

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**POP HLTH 709 – TRANSLATIONAL AND OUTCOMES RESEARCH IN HEALTH AND HEALTH CARE**

3 credits.

This course seeks to review the conceptualization of translational and outcomes research in health and health care settings; to illustrate basic concepts and methods in research as applied to current issues in health and health care settings; and to understand the diverse perspectives that can be used to inform translational and outcomes research in different organizations, including those based within communities.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POP HLTH 711 – INTRODUCTION TO LIFE COURSE EPIDEMIOLOGY AND FAMILY HEALTH SERVICES RESEARCH**

3 credits.

This course will deepen our understanding of how health is produced over the life course. A life course approach focuses on how early life experiences influence health across lives and possibly generations. This includes the concept of "linked lives" or how health is produced in the context of familial and social relationships. Using a life course and human development framework, we will explore a number of concepts explaining how exposures in early life lead to health outcomes at later life stages. Namely, we will examine critical or sensitive periods (i.e., "Barker hypothesis" or "fetal or biological programming"), cumulative effects, pathways and trajectories, risk and resilience, and intergenerational impacts (transmission of health across one or more generations). Through this lens, we will consider the biobehavioral processes that underlie the development of health across the life course. Together this theoretical and empirical evidence will be applied to the understanding of the evolution and persistence of health disparities. Data sources, study designs, and statistical approaches used in life course epidemiology and family health services research will also be reviewed and evaluated. Finally, we will explore implications for clinical and public health practice, policy, and health system development with an eye towards the development of effective and sustainable life course interventions.

We will conclude the course with an in-depth examination of three case-studies that will allow the students to apply their knowledge to specific life course and family health services research examples. The purpose of this course is to provide students with a foundation for understanding: 1) the terminology and theoretical framework used in life course epidemiology and family health services research; 2) biobehavioral pathways by which early life experiences impact health across the life course; 3) the data sources, study designs, and statistical approaches used in life course epidemiology and family health services research; 4) the implications for clinical and public health practice, policy, and health system development with an eye towards the development of effective and sustainable life course interventions.

**Requisites:** Graduate standing and either POP HLTH 795 or POP HLTH/SOC 797; or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**POP HLTH 712 – INTEGRATING MEDICINE AND PUBLIC HEALTH**

1 credit.

The purpose of this elective is to provide 1st and 2nd year medical students and physician assistant students with an introduction to public health and opportunities to meet and discuss key concepts with an exciting variety of physician leaders who have integrated medicine public health in their careers.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POP HLTH 713 – EPIDEMIOLOGY OF HIV/AIDS**

1 credit.

This course provides an overview of the HIV/AIDS pandemic in the United States and worldwide. Topics covered include a review of the epidemiology of HIV/AIDS, the natural history of HIV disease, strategies to prevent and treat HIV, and local and global health impact with a focus on historically significant milestones as well as promising current and future research.

**Requisites:** PHS 797 Introduction to Epidemiology or permission from the instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**POP HLTH 714 – LEADERSHIP FOR POPULATION HEALTH IMPROVEMENT**

3 credits.

This course is designed to deepen participants' understanding of their own leadership attributes and style, refine core leadership skills including communication, collaboration, negotiation, and advocacy, and build a framework for advancing population health improvement within and across organizations.

**Requisites:** Students must be in the Leadership in Population Health Improvement on-line Certificate and must have taken PHS 780, PHS 785, and PHS 879

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**POP HLTH 715 – INTRODUCTION TO COMMUNITY ENGAGEMENT**

1 credit.

The course will provide students with introductory knowledge and skills needed for appropriate community engagement to address community health issues.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**POP HLTH 717 – PRINCIPLES OF POPULATION MEDICINE AND EPIDEMIOLOGY**

3 credits.

Focuses on the basic science of public health and population medicine. Students learn about epidemiologic methods to understand the causes of disease, and evidence-based approaches for disease prevention, early detection and treatment, at the individual and community level.

**Requisites:** 1st yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**POP HLTH 718 – PRINCIPLES OF GLOBAL HEALTH CARE SYSTEMS**

2 credits.

Addresses and analyzes differences in health status and methods of organizing and providing health services in countries with varying levels of development and types of socio-political systems. Develops an understanding of the various avenues of international cooperation in health.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POP HLTH/MED SC-M 719 – SEMINAR-CONTEMPORARY ISSUES IN HEALTH CARE**

1-2 credits.

Lecture. Social, economic and political aspects of health care delivery, including health needs and demands, doctor shortage, health team, models of delivering care, health planning, cost and financing, quality of care and international systems.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**POP HLTH 721 – CONSPIRACIES IN PUBLIC HEALTH**

2 credits.

Skepticism and conspiracism can be barriers to successful implementation of public health and medical interventions such as vaccination, fluoridation of water, and HIV treatment. Conversations between people with opposing viewpoints, whether face-to-face or via social media, often devolve to disparagement and dismissal. Awareness of or experience with such exchanges causes us to avoid tackling such "hot button" topics with friends, colleagues, and members of our communities. While it is all too easy to believe people who adopt conspiracy theories to be members of the fringe, research has shown that medical conspiracy theories are widely known, broadly endorsed, and highly predictive of many common health behaviors. Conspiracies in Public Health will prepare health professions students to educate communities about important public health and medical interventions.

**Requisites:** Professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**POP HLTH 729 – PREPAREDNESS IN PUBLIC HEALTH**

2 credits.

Provides an overview of various types of public health emergencies and disasters including the organizations and disciplines that prepare and respond to natural and unnatural emergencies. Students will gain an understanding of how public health officials, public health practitioners, state and local health department staff, health care personnel and emergency responders plan for and respond to public health emergencies. The role of the physician will specifically be explored.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**POP HLTH 750 – CANCER EPIDEMIOLOGY**

2-3 credits.

This course will cover current knowledge on cancer occurrence and control in human populations. Design and analysis approaches appropriate for cancer epidemiology will also be discussed.

**Requisites:** Prev Med 797, 798; H Oncol 721 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2011**POP HLTH/NURSING/PHARMACY/PHY ASST/PHY THER 758 – INTERPROFESSIONAL PUBLIC HEALTH LEADERSHIP**

1 credit.

Provides students with an opportunity to engage in collaboration, problem solving and teamwork in an interdisciplinary framework as they prepare an Interprofessional Case Competition (Fall) or as they prepare a collaborative case conference for the health professional students on campus (Spring). As students from different healthcare and public health backgrounds interact, learn together and share their experiences, they will become better prepared to lead and collaborate professionally in the future.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**POP HLTH 780 – PUBLIC HEALTH: PRINCIPLES AND PRACTICE**

3 credits.

An interdisciplinary graduate-level course addressing population-based approaches to community health improvement, and features problem-based learning. A focus on contemporary issues; opportunities to work with a public health mentor and lectures by local, state and national figures.

**Requisites:** Enrollment in the Master of Public Health (MPH) program at UW-Madison, Grad st, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**POP HLTH 781 – PUBLIC HEALTH SEMINAR**

1 credit.

Students will explore current public health issues, problems, and solutions while advancing their communication, facilitation, and leadership skills.

**Requisites:** POP HLTH 788**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**POP HLTH 785 – HEALTH SYSTEMS, MANAGEMENT, AND POLICY**

3 credits.

This course is designed to introduce students to the fundamental characteristics of health care systems.

**Requisites:** Health prof st or grad st; or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**POP HLTH 786 – SOCIAL AND BEHAVIORAL SCIENCES FOR PUBLIC HEALTH**

3 credits.

Students analyze public health issues from a social and behavioral sciences perspective, and critically examine the strengths and weaknesses of particular theories for developing effective population and community-based intervention programs.

**Requisites:** Grad or health professional student; or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**POP HLTH 787 – MPH FIELD EXPERIENCE SEMINAR**

1 credit.

Unique seminar for MPH students to prepare them to work in field or community setting.

**Requisites:** Must be MPH student**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**POP HLTH 788 – THE PUBLIC HEALTH FIELD EXPERIENCE**

1-6 credits.

The field experience is required for all students in the master of public health (MPH) program and provides students with practical experience in a public health setting.

**Requisites:** POP HLTH 787**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**POP HLTH/M&ENVTOX 789 – PRINCIPLES OF ENVIRONMENTAL HEALTH: A SYSTEMS THINKING APPROACH**

3 credits.

This course provides an overview of the field of environmental health, using a systems thinking approach. Systems thinking recognizes that environmental health problem solving is complex and that solutions in one area may have positive or negative impacts on other areas. As an overview it provides an introduction to the history of environmental health within the field of public health from the local to the federal and global level. It will introduce multiple disciplines, methods and approaches to numerous environmental health topics. It includes introduction to methods and tools necessary for assessing human health risks from a variety of environmental hazards and exposures found in air, land, and water with a focus on physical and chemical risks. Additional details regarding specific hazard, exposure and health outcome data and their relationship to environmental health risk assessment, environmental health decision-making and management from a public health practice perspective will be discussed. Students will become familiar with the practice of environmental health lectures and case studies. A primary goal of this course is to address core environmental health competencies for Masters of Public Health students. In addition, this course is designed to help students think critically about complex problems and practice effective communication both in written as well as oral forms of communication. As such, it will provide an overview of fundamental information and tools that public health practitioners will need to know how to use. It will also lay the foundation for more high-level courses in the field of environmental health for those wishing to pursue aspects of this field in more detail. It is aimed at students with a diverse knowledge set and background coming into the course, a general sense of basic biology and chemistry will be helpful, but not necessary.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**POP HLTH 790 – THE PHYSICIAN IN PUBLIC HEALTH AND PUBLIC HEALTH IN THE PHYSICIAN**

2 credits.

This 2-credit elective course, designed exclusively for MD-MPH dual degree students, will provide an opportunity for students to continue or enhance work on the continuum of the MPH fieldwork and/or capstone project during Phase III of medical school through a one-month self-directed learning experience. This elective will be planned well in advance, and the month-long elective will be devoted entirely to a public health-related project that has been approved by the MD-MPH Director.

**Requisites:** Declared in the dual MD-MPH degree program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**POP HLTH/KINES 791 – PHYSICAL ACTIVITY EPIDEMIOLOGY**

3 credits.

Recommendations for and surveillance of physical activity in the U.S., and associations with health and disease at the population level. Emphasis on measurement techniques, study design and research considerations.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**POP HLTH 794 – BIOLOGICAL BASIS OF POPULATION HEALTH**

2 credits.

This course covers the physiology, biology and biochemistry of selected disease processes deemed to be important to students of population health sciences by virtue of their clinical significance including incidence, mortality and morbidity.

**Requisites:** Pop Hlth Grad st or MPH stdt; or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**POP HLTH 795 – PRINCIPLES OF POPULATION HEALTH SCIENCES**

1-3 credits.

Introduces students to the multiple determinants of health including medical care, socioeconomic status, the physical environment and individual behavior, and their interactions. Also covered will be the definition and measurement of population health, economic concepts in population health, and ethical and managerial issues in population health improvement. The three credit version of this course is intended for graduate students in the Population Health Sciences and other departments. The one credit version is required for MPH students.

**Requisites:** Declared in Population Health or Master of Public Health program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**POP HLTH 796 – INTRODUCTION TO HEALTH SERVICES RESEARCH**

3 credits.

Introduces students to a variety of perspectives, substantive areas and methodological approaches to health services research that provide the foundation for understanding the structure, process and outcomes of the U.S. health care system.

**Requisites:** Pop Hlth 795; or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017

**POP HLTH/SOC 797 – INTRODUCTION TO EPIDEMIOLOGY**

3 credits.

Lectures and discussions on design, implementation and interpretation of epidemiologic studies; emphasis on methodologic problems in the measurement of disease frequency, natural history and risk factors.

**Requisites:** Grad st or healthcare professional program st or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POP HLTH 798 – EPIDEMIOLOGIC METHODS**

3 credits.

The main emphasis is the design and interpretation of epidemiologic studies. Includes hands-on experience in the evaluation of epidemiologic evidence, the analysis of epidemiologic data, and the discussion of strategies aimed to improve study validity and efficiency.

**Requisites:** Pop Hlth 797; or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**POP HLTH 801 – EPIDEMIOLOGY OF INFECTIOUS DISEASES**

3 credits.

Introduces basic methods to studying the epidemiology of infectious diseases and reviews infectious diseases of major public health importance. Covers the basics of microbiology, immunology, and laboratory-based methods and the principles of disease surveillance, outbreak investigation, mathematical models of disease transmission, and prevention strategies. The etiology, epidemiology, prevention, and treatment of ancient, modern, and emerging infectious diseases will be examined.

**Requisites:** Pop Hlth 797; or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**POP HLTH 802 – ADVANCED EPIDEMIOLOGY: ETIOLOGY AND PREVENTION**

3 credits.

The course addresses the epidemiological basis for understanding the etiology and prevention of major diseases. Students integrate information about disease patterns, epidemiological methods, and published studies to identify research questions and design a project.

**Requisites:** Grad st, Pop Hlth 797 798; or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**POP HLTH 803 – MONITORING POPULATION HEALTH**

3 credits.

Students learn applied techniques for community health assessment—a core function of public health. Actual population health data (including census, natality, mortality, hospital discharge, behavioral risk factor) are retrieved from the Web for analysis and interpretation.

**Requisites:** Pop Hlth 797

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POP HLTH 805 – ADVANCED EPIDEMIOLOGY: CAUSAL INFERENCE IN EPIDEMIOLOGICAL STUDIES**

3 credits.

The focus of the course is on the use of viewpoints and design/analytical tools to render possible the estimation of causal effects in epidemiologic studies. Students learn about the rationale and use of study designs/analytic tools that build upon but are substantially different from the most common approaches used in epidemiologic research (experimental studies, case-control studies, and cohort studies).

**Requisites:** POP HLTH/SOC/POP HLTH 797 and POP HLTH 798

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**POP HLTH 806 – ADVANCED EPIDEMIOLOGY: PRACTICE OF EPIDEMIOLOGY**

3 credits.

The goals of the course are to apply and extend methodologic knowledge learned in prior courses in the Population Health Sciences epidemiology methods sequence (PHS 797, 798, 805; these are prerequisites) to selected key activities of a practicing epidemiologic researcher, including: study implementation; scientific writing and presentation; manuscript and grant peer-reviewing; measurement validation, simulation studies and sensitivity analyses; and, commonly-used epidemiology field instruments and methods.

**Requisites:** Population Health Sciences 797, 798 and 805

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**POP HLTH/OBS&GYN 807 – REPRODUCTIVE AND PERINATAL EPIDEMIOLOGY**

2 credits.

The course provides students with an overview of the current knowledge and research in reproductive and perinatal epidemiology. Through reading of the primary and secondary literature, students examine issues related to topics such as fertility, preconception health, and perinatal outcomes including maternal morbidity and mortality, pregnancy loss, and infant outcomes. Current evidence-based strategies designed to improve reproductive and perinatal outcomes are reviewed. Long-term health implications of pregnancy and infant health are considered. The classes will be structured to include faculty-led lectures, discussions with guest faculty, and student-led discussions.

**Requisites:** POP HLTH/SOC/POP HLTH 797**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**POP HLTH 820 – GRADUATE RESEARCH SEMINAR**

1 credit.

Research seminar for students in the population health graduate program. Presentations by graduate students, professors, public health professionals and experts designed to cover the depth and breadth of research in the field of population health.

**Requisites:** Grad st in population health grad prog**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**POP HLTH 845 – SEMINAR IN HEALTH AND MENTAL HEALTH ECONOMICS**

1-3 credits.

This doctoral seminar provides an overview of current topics in health and mental health economics. The main objectives of this seminar is to acquaint students with important current topics, literature, and scholarship in this field. For other graduate students studying health economics, enrollment is by consent of instructor (to manage seminar size). Graduate-level study in microeconomics and econometrics is expected for any student enrolled in or auditing the course

**Requisites:** Students who are predoctoral trainees in the NIMH Training Program are expected to take this seminar all semesters it is offered.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**POP HLTH 847 – CARDIOVASCULAR EPIDEMIOLOGY**

1 credit.

For graduate students interested in the epidemiology of cardiovascular diseases. The main emphasis is the discussion of the population distribution, health impact, risk factors, treatment, and prevention of cardiovascular diseases.

**Requisites:** POP HLTH/SOC/POP HLTH 797**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**POP HLTH/ECON 848 – HEALTH ECONOMICS**

1-3 credits.

Health economics issues including demand, supply and pricing, market structure, medical malpractice, technological change, value of life, role of insurance, and other aspects of uncertainty.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**POP HLTH/AN SCI/GENETICS 849 – GENETIC EPIDEMIOLOGY**

3 credits.

This course will provide an introduction to genetic epidemiology. Topics will include a general overview of genetics and Mendelian and complex inheritance, as well as various elements of study design, including participant ascertainment; phenotype definition; biologic sample selection; genotyping, sequencing, and quality control; measurement of covariates, and choice of analytic methods. We will briefly discuss some of the original study designs and then focus on current study designs for the remainder of the class. Additional emerging topics will be briefly touched upon. Students will complete short homework assignments to enforce concepts learned during lectures, discuss journal articles, and prepare a very short grant application for the mid-term project. In the final weeks of class, students will work together to analyze data from a real genetic study, prepare tables, interpret the findings, and present their project to their peers.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**POP HLTH/I SY E 875 – COST EFFECTIVENESS ANALYSIS IN HEALTH AND HEALTHCARE**

3 credits.

Basic ideas and tools of cost effectiveness analysis as applied in evaluating medical technologies. Addresses special problems and methods in assessing diagnostic technologies, including ROC analysis, and in measuring health for technology assessment. Uses "classical" and current journal literature.

**Requisites:** POP HLTH/SOC/POP HLTH 797 and B M I/POP HLTH/ B M I 552**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**POP HLTH 876 – MEASURING HEALTH OUTCOMES**

3 credits.

Provides a comprehensive understanding of health outcome measures, including generic health status measures, disease-specific measures, and consumer reports of the quality of care.

**Requisites:** Grad stdt in population health Prev Med 795, 797 800; or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017

**POP HLTH 879 – POLITICS OF HEALTH POLICY**

2-3 credits.

Current major U.S. health policy issues and the critical processes and forces that shape them. The course discusses the politics of health policy; key economic, social and ethical forces; and central players.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**POP HLTH/A A E/ENVIR ST/PUB AFFR 881 – BENEFIT-COST ANALYSIS**

3 credits.

This course will present the welfare economics underpinnings for evaluating the social benefits and costs of government activities. Issues such as uncertainty, the social discount rate, and welfare weights will be discussed; case studies from the environmental, social policy, and agricultural areas will be studied.

**Requisites:** Grad st, Pub Affr 818 880 or Pop Hlth 875 at least one crse in econ or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**POP HLTH/GENETICS/MD GENET 888 – PUBLIC HEALTH GENOMICS**

1 credit.

Public health genomics uses knowledge gained from genetic and molecular research along with a consideration of ethical, legal, and social implications (ELSI) to prevent disease and improve the health of the population. Students enrolled in this course will be provided an introduction to public health genomics through a review of fundamental principles of genetics, followed by lectures and discussions on the use of genetic information in clinical and research settings and its implications for disease management and prevention. Students will also gain an awareness of policies that guide public health and will be able to discuss current ethical, legal, and social implications of these policies. These learning objectives will be met through readings and videos, lectures, and discussions of recent journal articles and current topics in public health genomics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**POP HLTH 904 – SPECIAL TOPICS IN EPIDEMIOLOGY**

1-3 credits.

In-depth focus on current areas of epidemiologic investigation. Each semester one or more modules (e.g., cardiovascular, cancer, infectious diseases, women's health, international, etc.) will be offered.

**Requisites:** Varies by section**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**POP HLTH 915 – INTERNATIONAL HEALTH SYSTEMS AND POLICY**

2 credits.

Designed as an independent study with four modules: International Health System Performance; Health Systems in the Context of Global Health Needs; Health Systems in High Income Countries; and the Politics of Health System Development and Reform.

**Requisites:** Grad or health professional st (not M1-M3 st)**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**POP HLTH 917 – GENERAL PREVENTIVE MEDICINE AND PUBLIC HEALTH ELECTIVE**

4 credits.

The 4th year public health elective will introduce the student to the role of physicians working in various fields of public health. Students can work with faculty from the Department of Population Health Sciences, Wisconsin Division of Public Health or Wisconsin State Laboratory of Hygiene on a public health or health policy project. The student will have the opportunity to select a health issue in Wisconsin, conduct a literature review, analyze relevant data, interpret the results, and write a report.

**Requisites:** Declared in the Medical program with 4th year standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**POP HLTH/KINES 955 – SEMINAR - PHYSICAL ACTIVITY EPIDEMIOLOGY**

1 credit.

Current research developments in physical activity epidemiology.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**POP HLTH 990 – RESEARCH**

1-8 credits.

Cons inst.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## PORTUGUESE (SPANISH AND PORTUGUESE) (PORTUG)

### PORTUG 101 – FIRST SEMESTER PORTUGUESE

4 credits.

Grammar, conversation, and reading.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### PORTUG 102 – SECOND SEMESTER PORTUGUESE

4 credits.

Continuation of 101. Open to Fr

**Requisites:** Portuguese 101.

**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### PORTUG 201 – THIRD SEMESTER PORTUGUESE

4 credits.

Open to Fr

**Requisites:** Portuguese 102.

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### PORTUG 202 – FOURTH SEMESTER PORTUGUESE

4 credits.

Continuation of 201. Open to Fr

**Requisites:** Portuguese 201.

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### PORTUG 207 – PORTUGUESE FOR BUSINESS

4 credits.

A second year Portuguese language course focusing on needs specific to business. Open to Fr

**Requisites:** Portuguese 101/102 or 301 or cons inst.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

### PORTUG 221 – INTRODUCTION TO LUSO-BRAZILIAN LITERATURES

4 credits.

Reading, discussion, literary history. Sixteenth, nineteenth and twentieth centuries.

**Requisites:** Portuguese 202 or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

### PORTUG 225 – THIRD YEAR CONVERSATION AND COMPOSITION

3 credits.

**Requisites:** Portuguese 202

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

### PORTUG 226 – THIRD YEAR CONVERSATION AND COMPOSITION

3 credits.

**Requisites:** Portuguese 225

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### PORTUG 230 – BRAZIL AND BRAZILIANS IN THE UNITED STATES

3 credits.

Examines the presence of Brazilian immigrants in the United States, Brazilian-United States diplomatic relations, and in particular, the cultural and artistic representation of Brazil and all things Brazilian in the United States.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

### PORTUG 299 – DIRECTED STUDY

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2004

### PORTUG 301 – INTENSIVE PORTUGUESE

4 credits.

**Requisites:** Cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**PORTUG 302 – INTENSIVE PORTUGUESE**

4 credits.

**Requisites:** Portuguese 301

**Course Designation:** Frgn Lang - 4th semester language course  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2015

**PORTUG 311 – FOURTH YEAR COMPOSITION AND CONVERSATION**

3 credits.

Advanced oral practice and writing.

**Requisites:** Cons inst

**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PORTUG 312 – FOURTH YEAR COMPOSITION AND CONVERSATION**

3 credits.

Continuation of 311.

**Requisites:** Portuguese 311

**Course Designation:** Frgn Lang - 4th semester language course  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PORTUG 330 – HISTORY OF THE PORTUGUESE LANGUAGE**

3 credits.

An introduction to the linguistic sources and the historical and political factors that contributed to the formation of Portuguese and the current status of Portuguese in the world today.

**Requisites:** Portuguese 311 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**PORTUG 361 – PORTUGUESE CIVILIZATION**

3 credits.

Lecture, readings and class discussion.

**Requisites:** Open to all undergrads

**Course Designation:** Gen Ed - Communication Part B  
Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PORTUG 362 – BRAZILIAN CIVILIZATION**

3 credits.

Continuation of 361.

**Requisites:** Portuguese 225/226 or cons inst

**Course Designation:** Breadth - Humanities  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**PORTUG 364 – HISTORICAL AND CULTURAL TRADITIONS OF BRAZIL**

2 credits.

**Requisites:** Portuguese 363 or cons inst

**Course Designation:** Breadth - Humanities  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**PORTUG 411 – SURVEY OF PORTUGUESE LITERATURE BEFORE 1825**

3 credits.

Advanced survey of Portuguese literature from 1140 to 1825.

**Requisites:** Portuguese 221 311/312 or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PORTUG 412 – SURVEY OF BRAZILIAN LITERATURE BEFORE 1890**

3 credits.

Advanced survey of Brazilian literature from 1500 to 1890.

**Requisites:** Portuguese 221 311/312 or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016



**PORTUG/FRENCH/ITALIAN/SPANISH 429 – INTRODUCTION TO THE ROMANCE LANGUAGES**

3 credits.

Introduction to structural similarities and differences apparent in major Romance languages (French, Italian, Portuguese, Spanish) and to their historical developments, with reference to basic linguistic features of each language: phonology, morphology, syntax, and lexicon. Does not count towards French major.

**Requisites:** Span 226 or PORTUG 226 or FRENCH 228 or Ital 311, or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**PORTUG/GEN&WS 450 – BRAZILLIAN WOMEN WRITERS**

3 credits.

A survey of representative writing by contemporary Brazillian women writers in relation to representations of nationality, race, class, ethnicity, gender and sexualities.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**PORTUG/AFRICAN 451 – LUSOPHONE AFRICAN LITERATURE**

3 credits.

Chronological and thematic survey of major trends, authors, and works of Lusophone Africa since 1936.

**Requisites:** Portuguese 221 311/312 or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PORTUG/GEN&WS 460 – CARMEN MIRANDA**

3 credits.

This course examines the work, representation and interpretation of Carmen Miranda from her early days as a radio star in Brazil to a film actress and entertainer in Hollywood in the 1940s and 50s.

**Requisites:** Jr st or cons inst

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PORTUG 467 – SURVEY OF PORTUGUESE LITERATURE SINCE 1825**

3 credits.

Advanced survey of Portuguese literature since 1825.

**Requisites:** Portuguese 221 311/312 or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**PORTUG 468 – SURVEY OF BRAZILIAN LITERATURE SINCE 1890**

3 credits.

Advanced survey of Brazilian literature since 1890.

**Requisites:** Portuguese 221 311/312 or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PORTUG 573 – TOPICS IN PORTUGUESE: STUDY ABROAD**

1-6 credits.

A course carried with a UW-Madison Study Abroad Program which has no equivalent on this campus.

**Requisites:** None

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**PORTUG 640 – TOPICS IN LUSO-BRAZILIAN LITERATURE**

3 credits.

**Requisites:** Portuguese 221 311/312 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**PORTUG 642 – TOPICS IN LUSO-BRAZILIAN CULTURE**

3 credits.

Examines a variety of cultural topics in relation to Portuguese-speaking countries.

**Requisites:** PORTUG 311 or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

**PORTUG 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**PORTUG 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**PORTUG 699 – DIRECTED STUDY**

1-6 credits.

Graded on a lettered basis; requires cons inst

**Requisites:** Sr st.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**PORTUG 707 – PORTUGUESE M.A. PROSEMINAR**

1 credit.

This course is designed to give new graduate students essential training in bibliography and research methods as well as exposure to faculty in the areas of Portuguese, Brazilian, and Lusophone African literature and linguistics. A. program at UW-Madison

**Requisites:** Acceptance in the Portuguese M.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**PORTUG 751 – SEMINAR: BRAZILIAN LITERATURE**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**PORTUG 772 – SEMINAR: PORTUGUESE LITERATURE**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**PORTUG/FRENCH/ITALIAN/SPANISH 817 – ROMANCE PHILOLOGY**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**PORTUG 899 – INDEPENDENT READING**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PORTUG/A A E/ANTHRO/C&E SOC/GEOP/HISTORY/LACIS/POLI SCI/ SOC/SPANISH 982 – INTERDEPARTMENTAL SEMINAR IN THE LATIN-AMERICAN AREA**

1-3 credits.

Interdisciplinary inquiry in Latin American society and culture.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PORTUG 990 – THESIS**

1-12 credits.

Credit commensurate with work accomplished.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

## PSYCHIATRY (PSYCHIAT)

**PSYCHIAT 699 – INDEPENDENT STUDY**

9 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PSYCHIAT 712 – FOUNDATIONS IN INFANT, EARLY CHILDHOOD AND FAMILY MENTAL HEALTH: DEV, SCREENING, ASSESSMENT AND DIAG**  
3 credits.

This course provides students with a comprehensive understanding of the underpinnings of Infant, Early Childhood and Family Mental Health. Content begins with a focus on pregnancy, transition to parenthood and development of typical and atypical attachment relationships. Subsequent sessions provide a knowledge base on early childhood development and on screening and assessment of social, emotional, cognitive, communication, motor and regulatory capacities in infants and young children in the context of their caregiving relationships. Students will become familiar with reliable and valid screening and assessment tools, developmentally appropriate diagnostic nosologies, methods of conceptualizing risk and protective factors, and planning for therapeutic interventions that build on strengths and address vulnerabilities in infants, young children, and their families. A unique feature of this course is on observation and assessment of early parent-child relationships and the use of video replay to engage parents in assessing their relationship with their child. During the course of the semester, students will also benefit from invited state and national guest speakers and faculty and instructors from the UW.

**Requisites:** Enrollment in the Capstone Certificate in Infant, Early Childhood and Family Mental Health

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PSYCHIAT 713 – SEMINAR IN REFLECTIVE PRACTICES AND MINDFULNESS IN INFANT, EARLY CHILDHOOD & FAMILY MENTAL HEALTH I**  
2 credits.

This course provides students with a foundation in reflective practices through discussion of cases, infant and family observations and mindfulness experiences as applied to their work with infants, young children and families. These practices allow students to explore and experience ways in which reflective practices strategies may be applied to the understanding of family and child development and to the screening, assessment and diagnoses in infants, young children and families. Students will learn strategies to focus their attention and to develop increased awareness and regulation of sensations, thoughts and emotions and how these skills can support best practices in their work with families of infants and young children. In reflective practice mentoring groups, students are also provided with both descriptive and in-vivo examples of reflective practice, along with case based presentations, allowing for deeper introspection and supportive discussion to increase clarity and engagement in their work with parents in the transition to parenthood and in parenting infants and young children. Discussion of professional ethics and boundaries related to the dilemmas faced by professionals working with families during the perinatal period and in early childhood, especially those in high risk and challenging circumstances will be addressed throughout the seminar.

**Requisites:** Students must be accepted into/enrolled in the Capstone Certificate in Infant, Early Childhood and Family Mental Health

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PSYCHIAT 714 – CONSULTATION IN INFANT, EARLY CHILDHOOD AND FAMILY MENTAL HEALTH: ADVANCED CLINICAL PRACTICE I**  
1 credit.

This small group and individualized course offers students an opportunity to reflect upon their work with mothers and partners in the prenatal and postpartum period, infants, young children and their families. Course faculty and a senior, clinical consultant will guide students in exploring their individual responses to the literature, course content and issues raised in their work including personal experience and reactions as well reflecting on the parallel process. The intent is to support the student's professional development in ways that broaden and deepen the effectiveness of their work.

**Requisites:** Enrollment in the Capstone Certificate in Infant, Early Childhood and Family Mental Health

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PSYCHIAT 715 – THERAPEUTIC INTERVENTIONS, PRACTICES AND POLICY IN INFANT, EARLY CHILDHOOD AND FAMILY MENTAL HEALTH**  
3 credits.

This course offers students the opportunity to apply knowledge of Infant, Early Childhood and Family Mental Health concepts, assessment and diagnosis to planning and implementation of relationship-based and individual treatment approaches as well as to program development and policy. Students will be introduced to best practices and evidence based multi-disciplinary treatment approaches to address a range of presenting issues, settings, and cultural contexts for vulnerable children who are evidencing social, emotional, behavioral or attentional disturbances and parents with psychiatric disorders. Implications for informing policy across systems of care will be addressed. During the course of the semester, students will benefit from invited state and national speakers and guest faculty and instructors from the UW speaking on their areas of expertise.

**Requisites:** Admission into the proposed Capstone Certificate Program in Infant, Early Childhood and Family Mental Health

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PSYCHIAT 716 – SEMINAR IN REFLECTIVE PRACTICES AND MINDFULNESS IN INFANT, EARLY CHILDHOOD AND FAMILY MENTAL HEALTH II**

2 credits.

This course provides students with continued advancement in reflective practices through discussion of cases, infant and family observations and mindfulness experiences as applied to their work with infants, young children and families. Students are provided with additional practice strategies and increasingly in-depth opportunities for introspection self-awareness and supportive discussion towards greater, clarity and engagement in their work. This will include a greater recognition of the parallel process between the nature of their relationship with a parent and the parent's relationship with their child. The focus will be on the application of mindfulness strategies and reflective practices to relationship-based therapeutic interventions with families of infants and young children, with a special focus on underserved populations and family circumstances where maternal depression, other mental health and co-morbid substance abuse disorders or trauma experiences (current or past) may contribute to disturbances in the parent-child relationship and the child's development. The course will also introduce mindfulness strategies that can be offered to parents and young children to reduce stress and increase mindful awareness and attention. In addition, concepts of ethics and boundaries will be integrated into the seminar course throughout the semester. There will also be opportunities for students to reflect upon their experiences in planning and conducting outreach education and consultation on topics related to infant, early childhood and family mental health to programs within their communities. The implications for policy and practice will also be addressed. This course will also include a self-assessment process that will support the students in assessing the appropriate level of endorsement and their readiness to apply for the Wisconsin Alliance for Infant Mental Health Endorsement. The semester concludes with an all-day mindfulness retreat incorporating what was learned over the semester.

**Requisites:** Students must be accepted into/enrolled in the Capstone Certificate in Infant, Early Childhood and Family Mental Health

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PSYCHIAT 717 – CONSULTATION IN INFANT, EARLY CHILDHOOD AND FAMILY MENTAL HEALTH: ADVANCED CLINICAL PRACTICE II**

1 credit.

This small group and individualized course offers students an opportunity to reflect upon their work with mothers and partners in the prenatal and postpartum period, infants, young children and their families. Course faculty and a senior, clinical consultant will guide students in exploring their individual responses to the literature, course content and issues raised in their work including personal experience and reactions as well reflecting on the parallel process. The intent is to support the student's professional development in ways that broaden and deepen the effectiveness of their work.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**PSYCHIAT 812 – THIRD YEAR PSYCHIATRY**

1-6 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PSYCHIAT 910 – INDEPENDENT READING AND RESEARCH FOR FOURTH YEAR MEDICAL STUDENTS**

1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**PSYCHIAT 919 – INDIVIDUALIZED FOURTH YEAR CLINICAL CLERKSHIP**

1-12 credits.

Individually arranged fourth year clinical clerkships. (Student must have Fourth Year Committee approval to count for fourth year credit.)

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PSYCHIAT 921 – BEHAVIORAL MEDICINE CLERKSHIP-LACROSSE**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PSYCHIAT 922 – PSYCHIATRIC CONSULTATION AND OUTPATIENT EXPERIENCES CLERKSHIP-CSC/VAH**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PSYCHIAT 923 – SPECIALIZED ADULT PSYCHIATRY CLERKSHIP-MENDOTA**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2010

**PSYCHIAT 924 – CHILD PSYCHIATRY CLERKSHIP-MENDOTA**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2010**PSYCHIAT 925 – COMMUNITY PSYCHIATRY CLERKSHIP-CSC/DANE COUNTY MHC**

2-12 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PSYCHIAT 930 – GERIATRIC PSYCHIATRY CLERKSHIP-VAH**

2-12 credits.

Clinical elective for fourth year medical students.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PSYCHIAT/PEDIAT 946 – CHILD PSYCHIATRY CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PSYCHOLOGY (PSYCH)****PSYCH 100 – EXPLORING PSYCHOLOGY**

2 credits.

Focuses on a wide range of research in psychology, such as child development, clinical psychology, perception, biological psychology, cognition, psychological neuroscience. We will also explore career psychology options.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**PSYCH/SOC 160 – HUMAN SEXUALITY: SOCIAL AND PSYCHOLOGICAL ISSUES**

3-4 credits.

Biological, psychological and sociological aspects of sexual relationships and behavior. The course presents theoretical and empirical materials on sexuality throughout the life-course, including childhood, adolescence, adulthood, and later life. Attention is given to gender, religion, education and the law as they relate to sexual expression in society.

**Requisites:** Not open to students who have taken Soc/Psych 350**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**PSYCH 202 – INTRODUCTION TO PSYCHOLOGY**

3-4 credits.

Behavior, including its development, motivation, frustrations, emotion, intelligence, learning, forgetting, personality, language, thinking, and social behavior.

**Requisites:** Not open to students who have taken PSYCH 201 or PSYCH 281**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PSYCH 210 – BASIC STATISTICS FOR PSYCHOLOGY**

3 credits.

Measures of central tendency, variability; probability, sampling distributions; hypothesis testing, confidence intervals; t-tests; Chi-square; regression and correlation (linear) and introduction to analysis of variance (1-way).

**Requisites:** Satisfied Quantitative Reasoning (QR) A requirement; PSYCH 201 or 202 or 281 or concurrent enrollment**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PSYCH 211 – FRESHMAN SEMINAR IN PSYCHOLOGY**

3 credits.

The course will introduce students to research methods, theories, findings and current controversies in a focused area of psychology. See Timetable for topics.

**Requisites:** Open to Fr**Course Designation:** Breadth - Natural Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014



**PSYCH 225 – RESEARCH METHODS**

4 credits.

General characteristics of scientific method; use of experimental, observational, and correlational research designs; research methods used in psychological science; illustration of core issues in research methods taken from several areas of psychology; lecture, demonstration, and experiments.

**Requisites:** Satisfied Communications A requirement and grade of C in (PSYCH 201, 202 or 281) and grade of C in (PSYCH 210, CE SOC/SOC/ C&E SOC 360, STAT 371, or GEN BUS 303)

**Course Designation:** Gen Ed - Communication Part B

Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PSYCH 280 – HONORS BASIC STATISTICS FOR PSYCHOLOGY**

4 credits.

**Requisites:** Completion of QRA; 201 or 202 honor stdt or cons inst

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**PSYCH 310 – TOPICS IN PSYCHOLOGY: STUDY ABROAD**

1-6 credits.

A course carried with a UW-Madison Study Abroad Program which has no equivalent on this campus.

**Requisites:** Current reg in a UW-Madison study abroad progm

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**PSYCH 311 – ISSUES IN PSYCHOLOGY**

1-4 credits.

Topics vary with the instructor. Survey of topical issues. May be repeated.

**Requisites:** PSYCH 201, 202, or 281

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PSYCH 325 – EXPERIMENTAL PSYCHOLOGY FOR GRADUATE STUDENTS**

4 credits.

Experimental research techniques and methodology as applied to various areas of psychology; lectures, lab experiments. Grad level of 225.

**Requisites:** Grad level of PSYCH 225.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**PSYCH/ISYE 349 – INTRODUCTION TO HUMAN FACTORS**

3 credits.

This course conveys the importance of considering human capabilities and limits in system design and operation. This includes understanding human characteristics from the cognitive, physical, and psychosocial perspectives. Implications of these characteristics are explored through understanding the needs of people, designing to support these needs, and evaluating systems to ensure they serve the intended purpose. Case studies are used to identify the human role in accidents and to identify design improvements. Application domains include consumer product design, human-computer interaction, workplace safety, and complex systems such as healthcare delivery. Concurrent registration in ISyE 348 is required for ISyE majors.

**Requisites:** Introduction to probability or statistics (Statistics 224, 309, 311, 371, PSYCH 210, PSYCH 280, SOC/C&E SOC 360, Gen Bus 303, or comparable course) or concurrent registration.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PSYCH 386 – TOPICS IN PSYCHOLOGY FOR HONORS STUDENTS**

1 credit.

Current topics for honors students in psychology. Faculty will lead lecture/discussions about a wide range of topics such as child development, clinical psychology, perception, physiological psychology, and human learning.

**Requisites:** 6 cr in psych, incl Psych 201/202 and So st or cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**PSYCH 399 – SERVICE LEARNING IN PSYCHOLOGY**

1-4 credits.

An independent study course to provide students with opportunities to gain experience in community service work relevant to psychology.

**Requisites:** So st, one Level II crse in psych, cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017



**PSYCH 403 – PSYCHOLOGY OF PERSONALITY**

3 credits.

Organization and development of the personality.

**Requisites:** PSYCH 201, 202, or 281**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**PSYCH 405 – ABNORMAL PSYCHOLOGY**

3-4 credits.

A survey course of psychopathology. In this breadth course, we will discuss the diagnosis and treatment of the major mental disorders. We will also consider the current thinking regarding the biological, psychological, and sociocultural factors that play contributing roles in the etiology and maintenance of these disorders. Historical trends as well as advances in neuroscience will be considered in terms of how they have affected our understanding of psychopathology.

**Requisites:** PSYCH 201, 202, or 281**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PSYCH 406 – PSYCHOLOGY OF PERCEPTION**

3-4 credits.

Survey the current knowledge about how the brain creates our conscious experience of a surrounding world and of our own bodies. We will consider contributions from various approaches, including neurophysiology, psychophysics, computer simulations, perceptual illusions, and patient studies.

**Requisites:** Sophomore standing and one of the following: PSYCH 201, 202, 281, (BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102), BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151 or (BIOCORE 381 and 382)**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**PSYCH 408 – PSYCHOLOGY OF HUMAN EMOTIONS**

3 credits.

Influence of emotions on goals, customs, interests, learning, reasoning, and behavior problems in children and adults.

**Requisites:** 12 cr of psych**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2011**PSYCH 412 – FIELD EXPERIENCE IN PSYCHOLOGY**

3 credits.

Provides an opportunity for students to gain practical experience in the application of psychology in an organization serving social, mental health, educational, biological psychology, developmental, or industrial/organizational interests. Readings and discussions in the application of psychology will be required. Individual courses may be required for some placements

**Requisites:** Major in psych must be declared.**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PSYCH 413 – LANGUAGE, MIND, AND BRAIN**

3-4 credits.

Cognitive processes and brain mechanisms underlying language use. Topics include language acquisition, production, comprehension, bilingualism, human vs. computer speech perception, reading and dyslexia, human language vs. animal communication, aphasia and other language impairments, and the relationship between language and thought.

**Requisites:** PSYCH 201, 202, 281, LINGUIS 101, or ANTHRO/LINGUIS/ ANTHRO 301**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PSYCH 414 – COGNITIVE PSYCHOLOGY**

3-4 credits.

The course attempts to answer questions about how people perceive, learn, remember, plan, solve problems, make decisions, and communicate. Although the main approach is psychological, we will also consider contributions from computer science, linguistics, and neurobiology.

**Requisites:** Sophomore standing and one of the following: PSYCH 201, 202, 281, (BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102), BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151 or (BIOCORE 381 and 382)**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PSYCH 428 – INTRODUCTION TO CULTURAL PSYCHOLOGY**

3-4 credits.

Cultural underpinning of psychological processes. The course will cover cultural influences on a wide range of psychological processes, including self-perception, motivation, relationship, cognition and perception, and will also deal with acculturation, within-cultural differences and cultural stability and change.

**Requisites:** PSYCH 201, 202, or 281**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**PSYCH 430 – HISTORY OF PSYCHOLOGY**

3 credits.

Theoretical and systematic psychology as represented by British empiricism, structuralism, functionalism, dynamic psychology, behaviorism, gestalt psychology, and psychoanalysis; implications for current trends in theory and systems.

**Requisites:** PSYCH 225 or cons inst**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2011**PSYCH 449 – ANIMAL BEHAVIOR**

3-4 credits.

Evolutionary and physiological mechanisms of animal behavior including aggressive, reproductive, communicative, and social behaviors, behavioral development.

**Requisites:** Sophomore standing and one of the following: PSYCH 201, 202, 281, (BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102), BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151 or (BIOCORE 381 and 382)**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PSYCH 450 – PRIMATES AND US: INSIGHTS INTO HUMAN BIOLOGY AND BEHAVIOR**

3 credits.

Evolution from monkey to humans of intelligence, social behavior, emotion, growth, and bodily structure.

**Requisites:** Sophomore standing and one of the following: PSYCH 201, 202, 281, (BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102), BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151 or (BIOCORE 381 and 382)**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**PSYCH/SOC 453 – HUMAN SEXUALITY**

4 credits.

Provides an interdisciplinary introduction to biological, psychological, and sociological aspects of human sexuality.

**Requisites:** Sophomore standing; not open to students who have taken PSYCH/SOC/PSYCH 160**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**PSYCH 454 – BEHAVIORAL NEUROSCIENCE**

3-4 credits.

Biological basis of human and animal behaviors, including perception, action, cognition, social interaction and disease. Weekly themes from "Cracking the Neural Code" to "Love and War". Students learn, develop and use neural mechanisms to explain and (attempt to) predict what they and others think and do in all facets of life."

**Requisites:** Sophomore standing and one of the following: PSYCH 201, 202, 281, (BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102), BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151 or (BIOCORE 381 and 382)**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**PSYCH 455 – LABORATORY IN BEHAVIORAL NEUROSCIENCE**

1 credit.

Introduction to research techniques and experimental methods of physiological psychology. Emphasis on the surgical, histological and electrophysiological techniques for studying the neural mechanisms of behavior.

**Requisites:** Psych 201 or 202 or 281; Zoo 101/102 or Zoo/Bot 151/152 or Biocore 301; con reg in PSYCH 454**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2013**PSYCH/SOC 456 – INTRODUCTORY SOCIAL PSYCHOLOGY**

3-4 credits.

The systematic study of the individual in a social context, including social interaction, motivation, attitudes, conformity, communication, leadership, personal relationships, and behavior in small groups.

**Requisites:** Sophomore standing and SOC/C&E SOC/SOC 140, 210, 211, SOC 181, PSYCH 201, 202, 281 or ANTHRO 100**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PSYCH 460 – CHILD DEVELOPMENT**

3-4 credits.

Biological and behavioral foundations of human development, with an emphasis on experiments and data-driven approaches. Topics will include prenatal development, behavior genetics, motor development, perceptual development, language development, cognitive development, emotional development, social development, and atypical development.

**Requisites:** PSYCH 201, 202, or 281**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**PSYCH 464 – ADULT DEVELOPMENT AND AGING**

3 credits.

Physical, cognitive, social, and personality development during the adult years.

**Requisites:** PSYCH 201, 202, or 281**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PSYCH 501 – DEPTH TOPIC IN SOCIAL SCIENCE**

4 credits.

Provides an in-depth treatment of a specific topic in psychology, in a format that includes both lecture and discussion.

**Requisites:** PSYCH 201, 202, or 281**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PSYCH 502 – COGNITIVE DEVELOPMENT**

4 credits.

Covers the basics of cognitive development during childhood. Topics include theoretical approaches to cognitive development; perceptual, language, memory, and conceptual development; social cognition; problem solving, and academic performance.

**Requisites:** (PSYCH 201, PSYCH 202, or PSYCH 281) and (PSYCH 406, PSYCH 413, PSYCH 414, or PSYCH 560)**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**PSYCH 503 – SOCIAL DEVELOPMENT**

4 credits.

Explores how infants and children perceive, think about, and interact with the social world. Topics include theory of mind, emotions, early social relationships, peer influences, morality and pro-social behavior, aggression, and social categorization.

**Requisites:** PSYCH 414, 449, 450, 528, 530 or 560**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**PSYCH 504 – AFFECTIVE NEUROSCIENCE**

4 credits.

Focuses on the neural basis of emotion, including how the brain analyzes incoming sensory information, categorizes its motivational value, and initiates an ecologically appropriate response.

**Requisites:** Students must have completed Psych 201 or PSYCH 202 or Psych 281; and must have completed PSYCH 406 or PSYCH 413 or PSYCH 414 or PSYCH 454 or Psych 530, or consent of instructor.**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2014**PSYCH 505 – DEPTH TOPIC IN BIOLOGICAL SCIENCE**

3-4 credits.

Provides an in-depth treatment of a specific topic in psychology and biology.

**Requisites:** Sophomore standing and one of the following: PSYCH 201, 202, 281, (BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102), BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151 or (BIOCORE 381 and 382)**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**PSYCH 508 – PSYCHOLOGY OF HUMAN EMOTIONS: FROM BIOLOGY TO CULTURE**

4 credits.

Emotional experience affects and defines every facet of our life, but it seems mysterious and unsuitable for scientific inquiry. This course shows how and why Emotion is not unsuited to scientific research. The Psychology of Human Emotion provides an in-depth examination of research from all sub-disciplines of the field of Psychology. This includes neuroscience and the biological bases of behavior, questions of the developmental curve for emotional phenomena and the relationship between feeling and thinking, all the way to the study of social groups and culture. Readings and discussion attempt to integrate existent theory and research and apply their implications to the individual, the group, and society. Students who have completed PSYCH 408 or 488 are not eligible to enroll for this course

**Requisites:** Intro Psych 201, 202, or 281, and one of the following: Psych 507, PSYCH/GEN&WS 522, Psych 528, Psych 530, Psych 350, Psych 560.**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**PSYCH 511 – BEHAVIOR PATHOLOGY: NEUROSES**

3 credits.

The nature, origins, assessment and treatment of neurotic, characterological, and psychosomatic behavioral abnormalities and psychopathology in adults and children. Those who take 511 may not receive credit for 509

**Requisites:** Psych 201 or 202 or 281.**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**PSYCH 512 – BEHAVIOR PATHOLOGY-PSYCHOSES**

3 credits.

The nature, origins, assessment and treatment of psychotic and organic behavioral abnormalities; emphasis on the experimental analysis of Psychopathology.

**Requisites:** Psych 201 or 202 or 281 509 or 511**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2014**PSYCH 513 – HORMONES, BRAIN, AND BEHAVIOR**

4 credits.

Complex social behavior emerges from the interplay of hormones, the brain and environmental signals. This course is structured to introduce psychology and neurobiology students to how hormones and neurotransmitters shape brain and behavior in animals and humans. We will review the mechanisms by which hormones shape brain sex differences and its consequences on juvenile (i.e. play) and adult behavior. We will discuss how hormones influence sexual behavior using basic animal models, and extend this to human sex differences, including sexual orientation. Additional topics include how hormones shape competitive and affiliative behaviors, eating disorders, and stress and mental health. We will also discuss how individual variation occurs in response to the changing environment and genetic landscape, including epigenetics at an introductory level.

**Requisites:** Sophomore standing and one of the following: PSYCH 201, 202, 281, (BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102), BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151 or (BIOCORE 381 and 382)**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**PSYCH 520 – HOW WE READ: THE SCIENCE OF READING AND ITS EDUCATIONAL IMPLICATIONS**

4 credits.

Reading is one of the most advanced expressions of human intelligence, involving language, vision, memory, learning, thinking and other capacities. This course is an in-depth introduction to scientific studies of reading, which examine how reading relates to spoken language, how people learn to read, the processes involved in skilled reading, the causes of reading impairments (dyslexia), and the brain bases of reading. The course will also examine whether this science can help to address America's literacy problem. Many people (about 30% of the population) are unable to read or read poorly. How can reading science be brought to bear on this problem, which is of enormous importance to both the affected individuals and society?

**Requisites:** (PSYCH 201, PSYCH 202, or PSYCH 281) and (PSYCH 406, PSYCH 413, PSYCH 414, or PSYCH 460 (old 560)); not open to students who have taken PSYCH 402**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PSYCH 521 – THE STRUCTURE OF HUMAN THOUGHT: CONCEPTS, LANGUAGE AND CULTURE**

4 credits.

This class will take you on a tour of how humans conceptualize the world, focusing on the role of language in thought. We will begin by discussing the evolution of language and how it relates to other communication systems used by humans and nonhuman animals. We will then discuss the relationship between language, culture, and cognition in domains as varied as mathematics, visual perception, spatial navigation, and theory of mind. In the process, we will tackle questions such as: What is the role of language in making us human? Can speaking a particular language allow the speakers to better adapt to their environment? Can we create new languages to improve human thought? We will also address such issues as metaphors in political discourse and propaganda, and the role of information technologies in the spread of ideas. This class will draw heavily on empirical research in cognitive and developmental psychology as well as neuroscience.

**Requisites:** Psych 201 or PSYCH 202 or Psych 281; and Psych 402 or PSYCH 413 or PSYCH 414 or Psych 560**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**PSYCH/GEN&WS 522 – PSYCHOLOGY OF WOMEN AND GENDER**

3 credits.

Examination of theories and research on the psychology of women and gender. Explores topics such as sex bias in psychological research; psychological aspects of female sexuality and reproduction; gender-based violence; female achievement and power; lifestyle choices of women; women and mental health; and psychological research with transgender individuals.

**Requisites:** Sophomore standing and a course in PSYCH and GEN&WS 102 or 103

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PSYCH/ZOOLOGY 523 – NEUROBIOLOGY**

3 credits.

Basic mechanisms in cellular neurophysiology: electrophysiology and chemistry of nerve signals, mechanisms in integration, simple nervous pathways and their behavioral correlates. We highly recommend entering students have a strong background in the principles of basic electricity (charge, voltage, current, resistance, capacitance), as provided by PHYSICS 104, 202, 208, or a strong high school physics program.

**Requisites:** (ZOOLOGY/BIOLOGY/BOTANY/BIOLOGY/ZOOLOGY 151 or ZOOLOGY/BIOLOGY 101 or BIOCORE 485) and (CHEM 103/104 or CHEM 109)

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PSYCH/NTP/PHYSIOL/ZOOLOGY 524 – NEUROBIOLOGY II: AN INTRODUCTION TO THE BRAIN AND BEHAVIOR**

3 credits.

An introduction to studies of the human nervous system covering neuroanatomy of the brain, neuronal coding, sensory and motor systems, biological rhythms, arousal, attention, physiological regulation, reward, aversion, learning and memory.

**Requisites:** Zool 523, equiv crse in physiol, or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**PSYCH 525 – COGNITION IN HEALTH AND SOCIETY**

4 credits.

Topics from cognitive psychology shed light on current issues in health and society. Topics include attention, memory, categorization, reasoning, decision making and problem solving. Issues include distracted driving, traumatic brain injuries, anxiety, dementia, eyewitness testimony, stereotype, and individual differences (e.g., autism spectrum disorders and expertise). It will focus on how experimental results and formal theories from each topic can be applied to understand current issues better and improve people's lives.

**Requisites:** PSYCH 403, 405, 406, 413, 414, 428, 449, 450, 454, 460, 464, PSYCH/SOC/PSYCH 453, PSYCH/SOC/PSYCH 456, GENWS/PSYCH/GEN&WS 522, or PSYCH/ZOOLOGY/PSYCH 523

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**PSYCH 526 – THE CRIMINAL MIND: FORENSIC AND PSYCHOBIOLOGICAL PERSPECTIVES**

4 credits.

Criminal behavior is an extremely common and costly problem for society. The goal of the course is to provide an indepth understanding of criminal psychology and the relevant forensic and psychobiological processes in the field.

**Requisites:** PSYCH 507, PSYCH 405 (old 509), PSYCH 511, PSYCH 512, or PSYCH/SOC/PSYCH 456 (old 530)

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PSYCH 532 – PSYCHOLOGICAL EFFECTS OF THE INTERNET**

4 credits.

Googling the question, "How is the Internet changing the way we think?" renders no shortage of opinions - or fears. In this course, students will examine empirical evidence for whether the Internet is changing the way we learn, communicate, socialize, attend, develop, and age. Students will read and synthesize original research literature, which will be augmented with readings and videos from the popular press.

**Requisites:** PSYCH 201, 202 or 281

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017



**PSYCH/ISYE 549 – HUMAN FACTORS ENGINEERING**

3 credits.

Analysis and design of man-machine systems using human performance models and data. Emphasis on systems involving communication and control. Projects using digital and analog computer simulation techniques for system design.

**Requisites:** IE 349 or equiv**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**PSYCH/ZOOLOGY 550 – ANIMAL COMMUNICATION AND THE ORIGINS OF LANGUAGE**

3 credits.

Signals, contexts, and mechanism of social communication in animals. Speech and non-verbal communication in human beings and possible arguments for the evolution of speech and language.

**Requisites:** PSYCH 449 or 450 or Zoology 531 or 532**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2012**PSYCH 584 – HONORS AFFECTIVE NEUROSCIENCE**

4 credits.

Focuses on the neural basis of emotion, including how the brain analyzes incoming sensory information, categorizes its motivational value, and initiates an ecologically appropriate response.

**Requisites:** Psych 201, 202, 281, or equiv; and either PSYCH 406, 413, 414, 454, or 530**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**PSYCH 601 – CURRENT TOPICS IN PSYCHOLOGY**

3 credits.

Special topics in Psychology at the advanced undergraduate level. May be repeated for credit with different titles.

**Requisites:** PSYCH 225 or PSYCH 285**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PSYCH 602 – INTERMEDIATE STATISTICS FOR PSYCHOLOGY**

3 credits.

Principles of psychological measurement and test theory, including reliability, validity, and test construction. Introduction to correlation, multiple regression, factor analysis, and other data analytic principles.

**Requisites:** PSYCH 210, CE SOC/SOC/C&E SOC 360, STAT 371, or GEN BUS 303**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2012**PSYCH 606 – HORMONES AND BEHAVIOR**

3 credits.

A survey of human and subhuman research findings relating behavioral events to endocrine function. Topics include stress, psychosis, intellectual development, memory, gender-identity differentiation, reproductive behavior, aggression, preceded by a review of basic and clinical endocrinology.

**Requisites:** PSYCH 225 and 454**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**PSYCH 607 – INTRODUCTION TO CLINICAL PSYCHOLOGY**

3 credits.

Methods, rationale, and empirical foundations of clinical psychology. Emphasis is on therapy and behavior modification. Intended for advanced undergraduate majors and non clinical graduate students.

**Requisites:** PSYCH 225**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PSYCH 610 – STATISTICAL ANALYSIS OF PSYCHOLOGICAL EXPERIMENTS**

3 credits.

Statistical analysis of data obtained with various experimental designs, Chi-square, analysis of variance and covariance, factorial and repeated-measures, Latin and Greco-Latin square designs, tests of trend.

**Requisites:** One undergrad crse in stats, or equiv**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017



**PSYCH/ANATOMY/NTP/PHMCOL-M/PHYSIOL 611 – SYSTEMS NEUROSCIENCE**

4 credits.

Introduction to the anatomy and physiology of the mammalian nervous system. Lectures will cover the neuroanatomy of the major subdivisions of the human brain, the major sensory and motor systems, and higher order functions. Lab/discussion sections will emphasize readings from the primary literature and hands-on dissections.

**Requisites:** PHYSIOL/NTP/PHMCOL-M 610**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**PSYCH/ANTHRO/NTP/ZOOLOGY 619 – BIOLOGY OF MIND**

3 credits.

Origins and structures of mind, brain, and consciousness. Transitions from early mammalian through primate to hominid intelligence. Genetics and plasticity in brain development. Modern studies of human brain mechanisms and consciousness.

**Requisites:** Jr st; college level elem crse in biology or psych**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2012**PSYCH 620 – CAPSTONE MENTORED RESEARCH AND SEMINAR**

1-6 credits.

In this course, students will develop an understanding of primary research in a topic area and will participate in designing and conducting research that challenges and/or extends current understanding of the topic. Course reading will include published research studies relevant to the selected topic, and evaluation will include presentations in group meetings and or a paper based on the research conducted.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**PSYCH 621 – MENTORED RESEARCH AND SEMINAR**

1-6 credits.

In this course, students will develop an understanding of primary research in a topic area and will participate in designing and conducting research that challenges and/or extends current understanding of the topic. Course reading will include published research studies relevant to the selected topic, and evaluation will include presentations in group meetings and or a paper based on the research conducted.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PSYCH/ISYE 652 – SOCIOTECHNICAL SYSTEMS**

3 credits.

Sociotechnical systems theory with applications to the design of organizations and jobs. Open systems and organizational environments. Analysis of the technical and social systems and techniques for "whole" system consideration. Organizational design strategy. Field site analyses by student teams.

**Requisites:** Grad st or IE 349**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2011**PSYCH/ISYE 653 – ORGANIZATION AND JOB DESIGN**

3 credits.

Design of productive organizations and people's roles within them. Issues including boundary location, organizational decision levels, autonomous work groups, implementation and diffusion. Roles of the union. Case studies.

**Requisites:** Grad st or IE 349**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PSYCH/NEURODPT/ZOOLOGY 674 – BEHAVIORAL NEUROENDOCRINOLOGY SEMINAR**

2 credits.

Behavior results from a complex interplay among hormones, the brain, and environmental factors. Behaviors and their underlying neural substrates have evolved in response to specific environmental conditions, resulting in vast species diversity in behavioral and neuroendocrine solutions to environmental problems. This seminar is designed to explore the primary literature on the neuroendocrine underpinnings of behavior spanning from feeding to sex differences in complex social behaviors. A range of taxonomic groups will be discussed, including (but not limited to) mammals, birds, and fish. A background in neuroscience and/or endocrinology is strongly recommended.

**Requisites:** BIOLOGY/ZOOLOGY/BIOLOGY 101 or BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151 or BIOCORE 383**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**PSYCH 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**PSYCH 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**PSYCH 686 – HONORS SEMINAR IN PSYCHOLOGY**

1 credit.

**Requisites:** Con reg in PSYCH 681 or 682 for Srs honors candidates and Sr st

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PSYCH 691 – UNDERGRADUATE THESIS**

1-6 credits.

Undergraduate research including completion of a thesis. Recommended for those intending to do graduate work in psychology.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PSYCH 692 – UNDERGRADUATE THESIS**

1-6 credits.

Continuation of 691.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PSYCH 693 – ANIMAL BEHAVIOR PROBLEMS**

1-12 credits.

Repeatable to a maximum of 12 credits. Individual experimental studies.

**Requisites:** Consent of instructor

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**PSYCH 694 – PROBLEMS IN DEVELOPMENTAL PSYCHOLOGY**

1-12 credits.

Repeatable to a maximum of 12 credits. Independent problems under supervision.

**Requisites:** Cons inst Psych 560 /or 561

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2014

**PSYCH 695 – PROBLEMS IN CLINICAL PSYCHOLOGY**

1-12 credits.

Repeatable to a maximum of 12 credits. Individual experimental studies.

**Requisites:** Consent of instructor

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**PSYCH 697 – PROBLEMS IN HUMAN BEHAVIOR**

1-12 credits.

Repeatable to a maximum of 12 credits. Independent work under supervision.

**Requisites:** Consent of instructor

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**PSYCH 699 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Jr or Sr st, and cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PSYCH 701 – PROSEMINAR IN EXPERIMENTAL PSYCHOLOGY**

1 credit.

Introductions to various aspects of experimental psychology such as sensory, learning, motivation, and experimental methodology.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PSYCH 703 – PROSEMINAR IN SOCIAL PSYCHOLOGY**

1 credit.

Weekly discussion of current topics in social psychology, especially as illustrated by the planned and ongoing research of the graduate students and faculty in social psychology. Recent journal articles will also be discussed. Others with cons soc psych area group chair. Req of all grads in soc psych

**Requisites:** Admission to grad prog in soc psych.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PSYCH 704 – PROSEMINAR IN CLINICAL PSYCHOLOGY**

1 credit.

Research and theoretical presentations by all class members as well as discussions and research critiques. Discussion of research articles. Six semesters of this course are required for all clinical graduate students.

**Requisites:** Admission to Grad prgm in clinical psych**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PSYCH 706 – PROSEMINAR IN DEVELOPMENTAL PSYCHOLOGY**

1 credit.

Weekly discussion of current topics in developmental psychology, especially as illustrated by the planned and ongoing research of the graduate students and faculty in developmental psychology. Recent journal articles will also be discussed.

**Requisites:** Grad st in psych or related field, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PSYCH 707 – PROSEMINAR IN BIOLOGICAL PSYCHOLOGY (PERCEPTION/BIOLOGY OF BRAIN & BEHAVIOR)**

1 credit.

Topical research-oriented presentations and discussions in the area of biological psychology. Each week the seminar will be led by a faculty member or advanced student in the biological psychology area group of the Department of Psychology.

**Requisites:** Declared in Psychology PhD program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PSYCH 710 – DESIGN AND ANALYSIS OF PSYCHOLOGICAL EXPERIMENTS**

3 credits.

Structure of psychological experiments; measurement and control of variables in psychology; randomized, orthogonal, and balanced designs; trend analysis; distribution-free methods.

**Requisites:** Grad st and PSYCH 225**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**PSYCH 711 – CURRENT TOPICS IN PSYCHOLOGY**

2-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PSYCH 715 – LANGUAGE AND COGNITIVE DEVELOPMENT**

3 credits.

The development of language and cognition with an emphasis on the review of research and theory.

**Requisites:** Graduate or professional standing**Course Designation:** Breadth - Social Science  
Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014**PSYCH 728 – CLASSIC ISSUES IN SOCIAL PSYCHOLOGY**

3 credits.

A broad survey of theories and research from the field of social psychology. Areas may include: attitudes and attitude change, conformity and compliance, altruism, attribution theory.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**PSYCH/COUN PSY/RP & SE 729 – ADVANCED SOCIAL PSYCHOLOGY**

3 credits.

Intensive examination of theoretical conceptions in contemporary social psychology, including learning-theoretic, reinforcement, incentive, cognitive, and psychodynamic approaches, and research in selected topic areas reflecting these approaches, such as aggression, attitude formation and change, conformity, limitation and modeling, interpersonal attraction, perception of others, prosocial behavior, and social influence.

**Requisites:** Grad st or Sr st and cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017

**PSYCH/GEN&WS 732 – PSYCHOLOGY OF WOMEN**

3 credits.

This course covers research and theory in psychology of women. Topics include nonsexist research methods, psychological gender differences, theories of moral development, women of color, mental health and feminist therapy, rape, sexual harassment, and public policy issues.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**PSYCH 733 – PERCEPTUAL AND COGNITIVE SCIENCES**

2 credits.

Lectures on current approaches to perceptual and cognitive sciences.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**PSYCH 740 – CLINICAL I: ASSESSMENT, ETIOLOGY, AND TREATMENT**

1 credit.

Lectures on current approaches to assessment, etiology, and treatment of topic material.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**PSYCH 741 – CLINICAL II: ASSESSMENT, ETIOLOGY, AND TREATMENT**

1 credit.

Lectures on current approaches to assessment, etiology and treatment of topic material.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PSYCH/COMP SCI/ED PSYCH 770 – HUMAN-COMPUTER INTERACTION**

3 credits.

Principles of human-computer interaction (HCI); human subjects research methods and procedures, qualitative and quantitative data analysis; and semester-long research project situated in critical domains of HCI, including applications in ubiquitous, affective, assistive, social, and embodied computing.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PSYCH 776 – TEACHING OF PSYCHOLOGY**

1-3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**PSYCH 799 – INDEPENDENT READING**

2-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**PSYCH 800 – COGNITIVE & NEUROPSYCHOLOGICAL ASSESSMENT FOR DIAGNOSIS**

2 credits.

Introduction to the major approaches and techniques used in the psychological assessment of cognitive functioning of children, adolescents, and adults, with special emphasis on intellectual evaluation. Other cognitive areas to receive focus include; attention, memory, executive function, language, and academic achievement.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**PSYCH 802 – ASSESSMENT OF PSYCHOPATHOLOGY & PERSONALITY**

2 credits.

This course will introduce the use of structured and semi-structured interviews typically used in psychodiagnostic settings, including research. The assessment of major/common psychopathologies and personality diagnosis will be covered. Additionally, several of the most commonly used clinical self-report and personality measures will be introduced (e.g., PAI, MMPI, BASC).

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**PSYCH 803 – ADVANCED TECHNIQUES IN PSYCHOTHERAPY**

3 credits.

This course will provide an overview of empirically supported psychotherapeutic movements and their associated history, philosophical underpinnings, and techniques. Students will be oriented toward the theoretical perspective, basic tenets, and the practical techniques/skills of each psychotherapy.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**PSYCH 805 – FIELD WORK IN CLINICAL PSYCHOLOGY**

1-3 credits.

Supervised field work in practical clinical situations.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**PSYCH 806 – PRINCIPLES OF PSYCHOTHERAPY RESEARCH**

2 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PSYCH 807 – INTRODUCTION TO CONDUCTING PSYCHOTHERAPY**

3 credits.

This course will introduce and allow practice with the skills needed to conduct individual psychotherapy using a cognitive behavioral approach.

The first half of the course focuses on interviewing skills, planning and initiating CBT interventions, and the administrative demands of clinical practice. The second half of the course involves conducting psychotherapy and participating in individual and group supervision of those therapeutic contacts. During supervision we will discuss the client's issues, goals, and progress, as well as the clinician's professional presentation, therapeutic approach and techniques, and communication skills.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PSYCH 809 – ETHICAL AND LEGAL ISSUES IN CLINICAL PRACTICE I**

2 credits.

The purpose of this course is to provide an introduction to the legal and ethical issues inherent to the conduct and process of professional clinical psychology. To this end, the course will review selected theories of moral philosophy, the American Psychological Association (APA) Ethical Principles and Codes of Conduct for Psychologists, other APA Standards and Guidelines and Wisconsin legal statutes governing the practice of psychology. This course is integrated with group case discussions and students. Students are encouraged to use this as a forum to discuss ethical and legal issues pertinent to their ongoing clinical cases. Ethical Legal Issues in Clinical Practice I will focus on introducing ethical principles; Wisconsin statutes; ethics and legal obligations when clients report suicidal or homicidal thoughts/actions; reporting of neglect and abuse; and record keeping.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**PSYCH 810 – CLINICAL SUPERVISION, CONSULTATION, & COMMUNITY PSYCHOLOGY I**

2 credits.

Clinical Supervision, Consultation, Community Psychology I introduces students to supervision and consultation as unique practices. Students will increase their understanding of the purposes of clinical supervision and consultation, theoretical frameworks and models of supervision and consultation, the roles and relationships related to clinical supervision and consultation, and legal, ethical and multicultural issues associated with clinical supervision and consultation. Students will develop skills in building a working alliance with a supervisee; providing developmentally appropriate performance feedback; planning and communicating strategies to develop rapport and motivation to solve problems in clients; negotiation and mediation to reach consensus and move past barriers; understanding and appreciating the diverse cognitive, behavioral, and effective characteristics of supervisees; applying theoretical material to case presentations and related experiential activities.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**PSYCH 811 – COGNITIVE BEHAVIOR THERAPY**

1 credit.

This course examines the theory and practice of Cognitive-Behavior Therapy (CBT). Students will examine the core issues of CBT from both theoretical and applied perspectives through case conceptualization exercises, role-plays, and application of CBT exercises to themselves.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**PSYCH 813 – ETHICAL AND LEGAL ISSUES IN CLINICAL PRACTICE II**

2 credits.

The purpose of this course is to extend and deepen our discussion of a clinical psychologist's ethical and legal obligations. To this end, the course will review selected theories of moral philosophy, the American Psychological Association (APA) Ethical Principles and Codes of Conduct for Psychologists, other APA Standards and Guidelines and Wisconsin legal statutes governing the practice of psychology. This course is integrated with PRTC group case discussions. Students are encouraged to use this as a forum to discuss ethical and legal issues pertinent to their ongoing clinical cases. This course will focus on a more in depth examination of the ethical and legal responsibilities of psychotherapists; ethics in academic settings; liability and duties when supervising trainees; appropriate collegial and client relationships; forensic psychology; and the business of mental health including ethical marketing practices.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**PSYCH 814 – CLINICAL SUPERVISION, CONSULTATION, & COMMUNITY PSYCHOLOGY II**

2 credits.

Clinical Supervision, Consultation, Community Psychology II continues the student's exploration of supervision and consultation begun in Clinical Supervision, Consultation, Community Psychology I. Students will build upon the supervisory skills they are already practicing. This course is highly experiential and students must be actively engaged in the provision of psychotherapy services in order to participate. Students will be presenting material from therapy sessions with their own clients in both small and large group situations. Students will continue the peer supervision relationships that were assigned in the previous semester, both as the supervisor and the supervisee. Students will evaluate and provide feedback regarding their own and their peers' supervisory performance.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**PSYCH/B M I/COMP SCI 841 – COMPUTATIONAL COGNITIVE SCIENCE**

3 credits.

Studies the biological and computational basis of intelligence, by combining methods from cognitive science, artificial intelligence, machine learning, computational biology, and cognitive neuroscience. Requires ability to program.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**PSYCH/I SY E 854 – SPECIAL TOPICS IN ORGANIZATION DESIGN**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**PSYCH/I SY E 859 – SPECIAL TOPICS IN HUMAN FACTORS ENGINEERING**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**PSYCH/ANTHRO 906 – METHODS AND HYPOTHESIS-TESTING FOR BEHAVIORAL ECOLOGISTS**

1-3 credits.

A detailed overview of field methods for behavioral ecologists, focusing specifically on behavioral and ecological sampling techniques. It addresses the challenging process of situating an empirical study within the context of theoretical paradigms.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2013**PSYCH 910 – SEMINAR-PSYCHOMETRIC METHODS**

2-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**PSYCH 913 – SEMINAR - HISTORY OF PSYCHOLOGY**

2-3 credits.

Overview of the history of psychology and its relevance to current issues in the discipline.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**PSYCH 916 – SEMINAR IN MATHEMATICAL PSYCHOLOGY**

2-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2009**PSYCH 918 – SEMINAR-GENERAL PSYCHOLOGY**

1-3 credits.

**Requisites:** Grad st prev cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PSYCH 930 – SEMINAR-SOCIAL PSYCHOLOGY**

2-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**PSYCH/ENTOM/ZOOLOGY 950 – INTERDISCIPLINARY SEMINAR IN ANIMAL BEHAVIOR**

1 credit.

Research methods in animal behavior studies in many disciplines.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2013**PSYCH 954 – SEMINAR-PHYSIOLOGICAL PSYCHOLOGY**

2-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**PSYCH 990 – RESEARCH**

1-12 credits.

Independent experimental, observational, or statistical investigation under the supervision of a staff member.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**PSYCH/COUN PSY/ED PSYCH/RP & SE 995 – PREDOCTORAL INTERNSHIP**

0 credits.

Registration for Ph.D. students who have successfully defended the dissertation and are in the process of completing the required predoctoral internship.

**Requisites:** Successful dissertation defense**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**RADIOLOGY (RADIOL)****RADIOL/B M E/MED PHYS/PHMCO-M/PHYSICS 619 – MICROSCOPY OF LIFE**

3 credits.

Survey of state of the art microscopic, cellular and molecular imaging techniques, beginning with subcellular microscopy and finishing with whole animal imaging.

**Requisites:** PHYSICS 104, 202, 208, or 248 or MED PHYS/PHYSICS/MED PHYS 265**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**RADIOL 699 – DIRECTED STUDY**

1-12 credits.

Directed study projects as arranged with faculty member.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**RADIOL 711 – JOURNAL CLUB**

1 credit.

Student Seminar and Journal club for second year students in the Medical Scientist Training Program.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**RADIOL/ANATOMY 722 – CLINICAL ANATOMY AND RADIOLOGY**

4 credits.

Anatomy and surgery of head and neck, body wall, cavities and pelvic outlet. Hands on experience in interpreting radiological cross-sectional images.

**Requisites:** Anat 711, Sr Med or Grad st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**RADIOL 813 – RADIOLOGY CLERKSHIP**

1-2 credits.

Introduction to principles and technology of diagnostic radiology. Emphasis on fundamental interpretation skills in chest, abdominal and bone films, and in cross-sectional anatomy. Discussions focused on appropriate, cost efficient radiologic workup and image guided surgery.

**Requisites:** 3rd or 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**RADIOL/MEDICINE/PEDIAT 902 – MSTP PHYSICIAN SCIENTIST PRECEPTORSHIP IN CLINICAL & TRANSLATIONAL RESEARCH**

1-6 credits.

Six-week clinical and translational research preceptorship for students of the Medical Scientist (MD/PhD) Training Program (MSTP).

**Requisites:** Limited to MSTP students in fourth year of medical school who have completed MEDICINE 901 and MEDICINE 903 or with instructor consent**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**RADIOL 910 – INDEPENDENT READING AND RESEARCH FOR FOURTH YEAR MEDICAL STUDENTS**

1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**RADIOL 920 – DIAGNOSTIC RADIOLOGY CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**RADIOL 923 – CLINICAL NUCLEAR MEDICINE CLERKSHIP-CSC/VAH**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**RADIOL 924 – GENERAL RADIOLOGY CLERKSHIP-ST LUKES (MILWAUKEE)**

2-12 credits.

Clinical elective for fourth year medical students.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

## REAL ESTATE AND URBAN LAND ECONOMICS (REAL EST)

**REAL EST/A A E/ECON/URB R PL 306 – THE REAL ESTATE PROCESS**

3 credits.

Introductory survey course. Decision-making processes for the manufacture, marketing, management and financing of real estate space. Survey of institutional context, economics of urbanization, historical pattern and structure of city growth, and public policy issues regarding urban environment and business management.

**Requisites:** So, Jr, or Sr st; ECON 101

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**REAL EST 312 – REAL ESTATE LAW**

3 credits.

The basic principles of real estate law related to ownership rights, negotiations, brokering, transfers, condominium law, financing, income tax law, real estate property taxation, bankruptcy law, construction and development contracts, and residential and commercial leases, including both office and retail leases, and an overview of international legal systems.

**Requisites:** Real Est 306 or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**REAL EST 365 – CONTEMPORARY TOPICS**

1-3 credits.

A course for the exploration of subject areas possibly to be introduced into the business curriculum.

**Requisites:** Prerequisite varies by topic

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**REAL EST 399 – READING AND RESEARCH-URBAN LAND ECONOMICS**

1-6 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2009

**REAL EST 410 – REAL ESTATE FINANCE**

3 credits.

Fundamentals of real estate finance; sources of funds, alternative financing instruments, and mortgage securitization; analysis emphasizing cash flow projections, yield and risk for residential and commercial real estate; pricing of mortgage securities.

**Requisites:** Real Est 306 or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**REAL EST 415 – VALUATION OF REAL ESTATE**

3 credits.

Techniques of real estate valuation. Market analysis, legal and political analysis, and highest and best use analysis; in-depth exposure to the three approaches to valuation; market comparison, income, and cost; the role of valuation in real estate investment; government regulation of appraisers.

**Requisites:** Real Est 306 or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**REAL EST/ECON/URB R PL 420 – URBAN AND REGIONAL ECONOMICS**  
3 credits.

Nature and structure of urban economies; location of economic activity; economic analysis in an urban framework; principles of urban economic development, housing, transportation, poverty and unemployment and municipal finance. Forecasting of economic activity using census and socioeconomic data.

**Requisites:** ECON 101

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**REAL EST/INTL BUS 430 – INTERNATIONAL REAL ESTATE**  
3 credits.

Analysis of international real estate and related transaction issues, especially in foreign countries which are visited as part of the course; survey of land use patterns and regulations, ownership rights, types of leases, transfer procedures, mortgage system, tax matters, currency risks, and geographical diversification issues.

**Requisites:** Real Est 306 or cons inst

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**REAL EST/A A E/URB R PL 520 – COMMUNITY ECONOMIC ANALYSIS**  
3 credits.

Economic theory (location and growth) applicable to community economic development; the role of private and public sector in local economic development, and techniques for economic analysis of community.

**Requisites:** ECON 301 or equiv

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**REAL EST 611 – RESIDENTIAL PROPERTY DEVELOPMENT**  
3 credits.

A capstone course. In-depth exposure to the world of the residential builder/developer/subdivider and the necessary tools of analysis—market analysis, zoning/environmental and other entitlements, site planning and design, infrastructure/construction cost analysis, financing, feasibility analysis, deal structuring, renovation/rehabilitation, special needs housing.

**Requisites:** Real Est 410 415 or con reg or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**REAL EST 631 – COMPUTER APPLICATIONS IN REAL ESTATE ANALYSIS**  
3 credits.

Computer methods for real estate investment/feasibility analysis, evaluation of mortgage design and mortgage pricing models; computer analysis of option models in real estate, use of sales comparison adjustment grid methods; implementation of capital asset pricing and portfolio models in real estate.

**Requisites:** Real Est 410 or 710 415 or 715 or con reg or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**REAL EST/ECON/URB R PL 641 – HOUSING ECONOMICS AND POLICY**  
3 credits.

The economic principles underlying the dynamics of the housing market; filtering, neighborhood decline and abandonment gentrification, tenure choice, mortgage choice, prepayment, mobility, mortgage default, submarket identification, racial discrimination and segregation. Examination of governmental programs affecting the housing market and their objectives and impacts; public and subsidized housing, zoning and land use regulation, rent and price controls, property and income tax policy.

**Requisites:** Real Est 420 or con reg or cons inst

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**REAL EST 651 – GREEN - SUSTAINABLE DEVELOPMENT**  
3 credits.

Intended for students who have an interest in Green and Sustainable aspects of housing and commercial property development and operation, the re-use and/or rehabilitation of existing structures, redevelopment of historic buildings into housing or commercial space and related special topics such as financing sources, tax issues, financial structuring, legal issues and energy cost management.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**REAL EST 661 – REAL ESTATE INVESTMENT ANALYSIS AND PRESENTATION**

3 credits.

This course provides a real world capstone experience of the real estate investment process from project conception to asset disposition with particular focus on analysis and presentation. Students will be exposed to best known methods and practices that private equity and development firms use to conduct market research, project selection, financial feasibility, regulatory review, design considerations, construction management, debt financing, equity placements, equity waterfalls, property management, asset management and disposition. The course uses several learning methods, including lectures with significant student participation, weekly online quizzes to ensure learning of quantitative concepts and presentation to industry professionals.. At the conclusion of the course students will have developed an interdisciplinary understanding of the many facets of the acquisition and development process in the U.S. and have an insightful understanding of the risks and rewards along each step of the process.

**Requisites:** REAL EST 410 and REAL EST 415**Repeatable for Credit:** No**Last Taught:** Fall 2017**REAL EST 706 – THE REAL ESTATE PROCESS**

3 credits.

Institutional background of real property; economics of urbanization, supply and demand; building industry, real estate credit, cyclical fluctuation, rents and prices, real estate market analysis; city growth, structure and planning, land use control, urban redevelopment and real estate investment analysis.

**Requisites:** Grad st ECON 301 or equiv or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**REAL EST 710 – REAL ESTATE FINANCE**

3 credits.

Evaluating the role of financing and leverage in real estate investment analysis; identifying alternative types of financing; valuation of financial structure; sources of equity financing for real estate; mortgage securitization and the operation of secondary mortgage markets.

**Requisites:** Grad st or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**REAL EST 712 – REAL ESTATE LAW**

3 credits.

Advanced principles of real estate law related to ownership rights, negotiations, brokering, transfers, condominium law, financing, income tax law, real estate property taxation, bankruptcy law, construction and development contracts, and residential and commercial leases, and an overview of international legal systems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**REAL EST 715 – TECHNIQUES OF REAL ESTATE VALUATION**

3 credits.

Topics include highest and best use and most probable use analysis, statistical methods for developing adjustment factors and comparable selection for the market comparison approach, discounted cash flow analysis and income capitalization, and cost approach methods. Issues in appraisal ethics and federal requirements for appraisal practice.

**Requisites:** Grad st only or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**REAL EST/URB R PL 720 – URBAN ECONOMICS**

3 credits.

Analysis of spatial relationships in the urban economy, including urban land, labor and housing markets; urban transport; city governance and finance; and regional models. Historical and applied focus. Interdisciplinary approach emphasizing economics, geography, and planning.

**Requisites:** ECON 301 or equiv or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**REAL EST/INTL BUS 730 – INTERNATIONAL REAL ESTATE**

3 credits.

Analysis of international real estate and related transaction issues, especially in foreign countries which are visited as a part of the course; survey of land use patterns and regulations, ownership rights, types of leases, transfer procedures, mortgage system, tax matters, currency risks, and geographical diversification issues.

**Requisites:** Grad st or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2010**REAL EST 740 – REAL ESTATE EQUITY INVESTMENT**

3 credits.

Fitting investment strategy to context of physical property, leverage, form of ownership, income tax and management alternatives. Emphasis is on analysis of limited partnerships, trusts, corporate real estate enterprises, and securitization to fund real estate.

**Requisites:** Real Est 710**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**REAL EST 750 – COMMERCIAL PROPERTY DEVELOPMENT**

3 credits.

A capstone course. Creating industrial real estate, office space, shopping centers, and hotel/recreation facilities, including strategy, market and feasibility analysis, site planning/design, capital cost analysis, construction and financial structuring. Emphasis on case studies and project analysis.

**Requisites:** Real Est 710, 715 or con reg**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**REAL EST 760 – LAWYERING THE DEVELOPMENT DEAL: A PRACTICAL GUIDE TO REAL ESTATE LAW**

3 credits.

A working knowledge of real estate law is an important underpinning of a successful real estate career. In this course, we will analyze current issues in real estate law with respect to the acquisition, leasing, financing, and development of real estate projects. While we will take a big picture view of these topics, we also will analyze them in the specific context of Rethke Terrace, a supportive housing project recently developed in the City of Madison. We will conclude the semester with an exploration of the art of negotiation.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**REAL EST 765 – CONTEMPORARY TOPICS**

1-4 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**REAL EST 770 – COMMERCIAL REAL ESTATE FINANCE**

3 credits.

This is a capstone course focused on advanced topics in commercial real estate finance. The course is broken into three parts: 1) Financial Derivatives, 2) Risk Management, and 3) Structured Finance. Lectures will address relevant topic areas and develop methodological skills. Industry professionals will appear later in the course to provide real world markets perspective. Assignments and case studies will be used to reinforce learning of material presented in class.

**Requisites:** Real Est 710 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**REAL EST 799 – READING AND RESEARCH-URBAN LAND ECONOMICS**

1-6 credits.

Individual work suited to the needs of graduate students may be arranged both during regular sessions and the intersession periods.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**REAL EST 870 – ADVANCED REAL ESTATE FINANCE THEORY**

3 credits.

Theory of real estate financial markets as applied to the pricing of residential and commercial mortgages. Intensive analysis of the real estate securitization process. A critical examination of REITs and equity interests in commercial real estate.

**Requisites:** Real Est 710 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2009**REAL EST 875 – ADVANCED URBAN LAND ECONOMICS**

3 credits.

A capstone course. Advanced analysis of selected topics in urban land economics, including urban form and location, government regulation of land use and real estate markets.

**Requisites:** Real Est 720 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2010**REAL EST 977 – SEMINAR-URBAN LAND ECONOMICS PHD**

2 credits.

Philosophic basis of research thinking and technique; case applications to the problems of urban land economics. PhD or 2nd yr masters candidates

**Requisites:** Two sems of Grad work.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2011**REAL EST/URB R PL 978 – SEMINAR-URBAN LAND ECONOMICS PHD**

2 credits.

Continuation of Urb R Pl/Real Est 977. PhD or 2nd yr masters candidates

**Requisites:** Two sems of Grad work.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2010

**REAL EST 990 – REAL ESTATE INDEPENDENT RESEARCH PHD THESIS**  
1-12 credits.

Individual work to complete dissertation requirement of Ph.D. program.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

**REAL EST 999 – READING AND RESEARCH-REAL ESTATE PHD**  
1-6 credits.

Individual work suited to the needs of Ph.D. students may be arranged both during regular sessions and during the intersession periods.

**Requisites:** PhD st cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

## REHABILITATION MEDICINE (RHAB MED)

**RHAB MED 699 – INDEPENDENT STUDY**  
9 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced  
L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**RHAB MED 919 – INDIVIDUALIZED FOURTH YEAR CLINICAL CLERKSHIP**  
1-12 credits.

Individually arranged fourth year clinical clerkships. (Student must have Fourth Year Committee approval to count for fourth year credit.)

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2013

**RHAB MED 920 – REHABILITATION MEDICINE CLERKSHIP-CSC**  
2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**RHAB MED 923 – PHYSICAL MEDICINE AND REHABILITATION-MARSHFIELD**  
2-12 credits.

Clinical elective for fourth year medical students.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

## REHABILITATION PSYCHOLOGY AND SPECIAL EDUCATION (RP & SE)

**RP & SE 200 – ISSUES IN SPECIAL EDUCATION**  
3 credits.

Designed for students interested in learning about special education, particularly careers in this field. Course will provide information on the history and evolution of special education and special educators' roles.

**Requisites:** Only students with Freshman or Sophomore standing may enroll

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**RP & SE 300 – INDIVIDUALS WITH DISABILITIES**  
3 credits.

An overview of the characteristics and problems of exceptional children and youth. Definition and classification systems, etiology of handicapping conditions, educational services, and adult adjustment. Current controversies and future trends.

**Requisites:** Open to Freshmen

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**RP & SE 310 – POSITIVE PSYCHOLOGY AND WELL BEING**  
3 credits.

Introduction to positive psychology, or the science of human strengths, mental health, and well-being. Covers theory and current research on positive psychology including concepts of optimism, flow, gratitude, and purpose in life. Positive psychology concepts are discussed within the context of health promotion, with an emphasis on minimizing the impact of illness and disability. Students learn to apply positive psychology concepts in personal and professional contexts to cultivate fulfilling, healthy, and meaningful lives for themselves and individuals around them.

**Requisites:** Sophomore standing

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No



**RP & SE 330 – BEHAVIOR ANALYSIS: APPLICATIONS TO PERSONS WITH DISABILITIES**

3 credits.

Children with exceptional learning and behavior characteristics (contrasting views and practices); a humanistic behavioral approach; development and evaluation of behavior change programs, classification and foundations of exceptional learning and behavior characteristics, and facilitating behavior change in different settings.

**Requisites:** RP & SE 300 SPE or RPS or PSR**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**RP & SE/CURRIC 365 – TEACHING MATHEMATICS IN INCLUSIVE SETTINGS**

4 credits.

Designed to introduce preservice teachers to a variety of approaches for teaching mathematics to students in inclusive schools.

**Requisites:** Admission to certification program or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**RP & SE 401 – AUGMENTATIVE AND ALTERNATIVE COMMUNICATION AND ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES**

1 credit.

Covers theoretical foundations for the assessment and selection of assistive technology and augmentative and alternative communication (AAC) for students with significant disabilities.

**Requisites:** Admission to certification program or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**RP & SE 402 – METHODS IN TEACHING FUNCTIONAL SKILLS**

1 credit.

Applies knowledge and skills for functional assessment and applied behavior analysis in the design and implementation of an individualized, functional curriculum for students with moderate to profound intellectual disabilities and autism spectrum disorders.

**Requisites:** RPSE 300 admission to certification program or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2017**RP & SE 403 – PROMOTING ADOLESCENT LITERACY FOR STUDENTS WITH DISABILITIES**

1 credit.

Designed to prepare future special educators to plan and provide language and reading instruction to adolescents with disabilities.

**Requisites:** Must have taken RPSE 300 and RPSE 465.**Repeatable for Credit:** No**Last Taught:** Fall 2017**RP & SE 404 – METHODS IN TEACHING SCIENCE & SOCIAL STUDIES FOR STUDENTS WITH DISABILITIES**

1 credit.

Prepares future special educators to plan and provide Science and Social Studies instruction to a broad range of students with disabilities.

**Requisites:** RPSE 300 and admission to certification program or consent of instructor**Repeatable for Credit:** No**Last Taught:** Spring 2017**RP & SE 405 – CURRENT TOPICS IN SPECIAL EDUCATION**

1 credit.

Explores current issues, topics, and trends in special education.

**Requisites:** Consent of instructor**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**RP & SE 450 – COLLABORATING WITH FAMILIES OF INDIVIDUALS WITH DISABILITIES**

3 credits.

The impact of disability on families; collaborative approaches to involving families in service planning.

**Requisites:** RPSE 300 Jr st**Repeatable for Credit:** No**Last Taught:** Fall 2011**RP & SE 457 – ELEMENTARY STUDENT TEACHING SEMINAR - ELEMENTARY/SPECIAL EDUCATION DUAL MAJOR**

1 credit.

Course addresses professionalism, research and problem solving, assessment, and collaborative skills relevant to the elementary and special education student teaching placement for students in the Elementary/Special Education Dual Major degree program.

**Requisites:** Declared in Elementary Education program**Repeatable for Credit:** No**Last Taught:** Spring 2017**RP & SE 464 – DIAGNOSIS, ASSESSMENT, AND INSTRUCTIONAL PLANNING IN SPECIAL EDUCATION**

4 credits.

Introduction to assessment terms and tools used to assist in the identification and diagnosis of students with disabilities; provide the skills necessary to collect and use assessment data to promote the successful outcomes in core academic instruction for students with disabilities.

**Requisites:** RP & SE 300 admission to cert program or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**RP & SE 465 – LANGUAGE AND READING INSTRUCTION FOR STUDENTS WITH DISABILITIES**

4 credits.

Designed to prepare future special educators to plan and provide language and reading instruction to a broad range of students with disabilities.

**Requisites:** RPSE 300 and admission to certification program or consent of instructor

**Course Designation:** Gen Ed - Communication Part B

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**RP & SE 466 – DIVERSITY IN SPECIAL EDUCATION**

3 credits.

Introductory overview of special education for culturally and linguistically diverse (CLD) learners with disabilities.

**Requisites:** Must have taken RPSE 300.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**RP & SE 467 – ELEMENTARY STUDENT TEACHING SEMINAR**

2 credits.

Course addresses professionalism, research and problem solving, assessment, and collaborative skills relevant to the elementary special education student teaching placement.

**Requisites:** Admission to certification program, concurrent registration in RPSE 477 or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**RP & SE 468 – SECONDARY STUDENT TEACHING SEMINAR**

2 credits.

Course addresses professionalism, research and problem solving, assessment, and collaborative skills relevant to the secondary special education student teaching placement.

**Requisites:** Admission to certification program, consent of instructor, or concurrent registration in RPSE 478

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**RP & SE 469 – ACADEMIC INSTRUCTION: LEARNING AND BEHAVIORAL DISABILITIES**

3 credits.

Features of effective academic instruction for students with learning and behavioral disabilities. Applications to reading, language, writing, spelling, mathematics, science, and social studies instruction. Phonemic awareness and phonics instruction included.

**Requisites:** RP & SE 300 330 or cons inst

**Repeatable for Credit:** No

**Last Taught:** Summer 2012

**RP & SE 470 – INDIVIDUALS WITH LEARNING AND BEHAVIORAL DISABILITIES**

3 credits.

Provides basic and comprehensive information about biological, educational, sociological, cultural, economic and legal phenomena that impinge upon individuals with a wide array of learning and behavioral disabilities.

**Requisites:** RP & SE 300, So st or cons inst

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**RP & SE 471 – METHODS AND CURRICULUM: LEARNING AND BEHAVIORAL DISABILITIES, K-9**

3 credits.

Individualized educational planning in academic, social-emotional and behavioral areas for students with learning and behavioral disabilities, grades kindergarten through nine. Philosophy and content based on application of theory-to-practice and empirical techniques.

**Requisites:** RP & SE 469, 470, admission to cert prog con reg in 475

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**RP & SE 472 – METHODS IN TRANSITION AND VOCATIONAL EDUCATION**

3 credits.

Provides information and methods necessary to provide individualized programming in transition and vocational education for students with disabilities, grades six through twelve.

**Requisites:** RPSE 300 and admission to the SE certificate program or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**RP & SE 473 – MANAGEMENT: STUDENTS WITH LEARNING AND BEHAVIORAL DISABILITIES**

3 credits.

Topics and issues regarding the educational management of students with learning and behavioral disabilities in grades kindergarten through twelve.

**Requisites:** RP & SE 469, 470 admission to cert prog

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**RP & SE 474 – DIAGNOSIS AND ASSESSMENT: LEARNING AND BEHAVIORAL DISABILITIES**

3 credits.

Educational evaluation, including participation in Multi-Disciplinary Team planning and curriculum based assessment of pupils with learning and behavioral disabilities in grades kindergarten through twelve.

**Requisites:** RP & SE 471 or 472 admission to cert prog

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**RP & SE 475 – SPECIAL EDUCATION PRACTICUM: MIDDLE CHILDHOOD - EARLY ADOLESCENCE**

3-6 credits.

Practicum teaching in an approved placement with a qualified cooperating teacher serving students with disabilities in any of grades K-8, supervised by a qualified university supervisor. Placement schedule determined by course instructor.

**Requisites:** Admission to Special Education certificate program and consent of department

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**RP & SE 476 – PRACTICUM: STUDENTS WITH LEARNING AND BEHAVIORAL DISABILITIES, 6-12**

5-7 credits.

A minimum of 225 hours per semester required. An approved placement with a qualified cooperating teacher and supervised by a teacher certified in special education (intellectual disabilities, behavioral/emotional disabilities, learning disabilities). Approved placement for students in grades six through twelve.

**Requisites:** RP & SE 469, 470, admission to cert prog con reg in 472

**Course Designation:** Workplace - Workplace Experience Course

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**RP & SE 477 – SPECIAL EDUCATION STUDENT TEACHING: MIDDLE CHILDHOOD - EARLY ADOLESCENCE**

6-12 credits.

Full time student teaching in an approved placement with a qualified cooperating teacher serving students with disabilities in any of grades K-8, supervised by a qualified university supervisor. Placement schedule follows the host school district calendar.

**Requisites:** Admission to Special Education certificate program

**Course Designation:** Workplace - Workplace Experience Course  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**RP & SE 478 – SPECIAL EDUCATION STUDENT TEACHING: EARLY ADOLESCENCE - ADOLESCENCE**

6-12 credits.

Full time student teaching in an approved placement with a qualified cooperating teacher serving students with disabilities in any of grades 6-12, supervised by a qualified university supervisor. Placement schedule follows the host school district calendar.

**Requisites:** Admission to Special Education certificate program

**Course Designation:** Workplace - Workplace Experience Course  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**RP & SE 479 – LANGUAGE AND READING INSTRUCTION: LEARNING & BEHAVIORAL DISABILITIES**

3 credits.

Specific methods, strategies, and procedures for assessing and teaching reading and language skills to students with learning and behavioral disabilities. Covers methods of teaching phonemic awareness, phonics, fluency, vocabulary, and text comprehension.

**Requisites:** RP & SE 469

**Course Designation:** Gen Ed - Communication Part B

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**RP & SE 500 – REHABILITATION-COUNSELING PSYCHOLOGY: FOUNDATIONS**

3 credits.

History, philosophy, principles, legislation, and development of vocational rehabilitation; organizational structure and objectives of the principal community agencies.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**RP & SE 501 – REHABILITATION-COUNSELING PSYCHOLOGY: APPLICATIONS**

3 credits.

Introduction to rehabilitation and human service programs for people with disabilities and other special needs. Emphasis on communication relevant to professional service, particularly writing.

**Requisites:** Con reg in RPSE 630 for 3 cr

**Course Designation:** Gen Ed - Communication Part B

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**RP & SE 505 – BIOLOGICAL, PSYCHOSOCIAL, AND VOCATIONAL ASPECTS OF DISABILITIES**

3 credits.

This course will provide students with an overview of disabilities with an emphasis on biological, psychosocial, and vocational aspects.

**Requisites:** RPSE 300 SPE or RPS or PSR

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**RP & SE/CURRIC 506 – STRATEGIES FOR INCLUSIVE SCHOOLING**

3 credits.

Comparison of historical and current practices in special education; legal, philosophical, and programmatic changes leading to inclusive models of education; emphasis on concepts of collaboration, cooperative learning structures, and curricular and instructional adaptations to accommodate learners with disabilities in general education classrooms.

**Requisites:** Sophomore standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**RP & SE 540 – ASSESSMENT OF ADULTS WITH DISABILITIES**

3 credits.

Assesses the vocational status and potential of people who have disabilities, with paper and pencil and situational-performance tests.

**Requisites:** Cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**RP & SE 550 – REHABILITATION PSYCHOLOGY-MEDICAL ASPECTS**

2-3 credits.

Medical and psychiatric care and rehabilitation; physical restoration; etiology, prognosis and therapy of common disabling conditions.

**Requisites:** None

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**RP & SE 560 – PSYCHOSOCIAL ASPECTS OF CHRONIC ILLNESS AND DISABILITY**

3 credits.

Provides a Bio-psycho-social approach to the dynamics of coping and adjustment to disability and chronic illness and investigates the effects of prevailing societal attitudes towards persons with disabilities and strategies for attitude change.

**Requisites:** Cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**RP & SE 630 – INTERNSHIP IN REHABILITATION OR SPECIAL EDUCATION**

2-6 credits.

Practicum experience in state or community agencies or in public school programs serving individuals with physical, cognitive, emotional, learning, social or behavioral problems.

**Requisites:** Consent of instructor

**Course Designation:** Workplace - Workplace Experience Course  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**RP & SE 660 – SPECIAL TOPICS**

1-6 credits.

An individualized approach in a variety of settings to learning problems encountered by those working with the atypical.

**Requisites:** Cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**RP & SE 690 – RESEARCH OR THESIS**

1-3 credits.

**Requisites:** Masters stdts cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**RP & SE 699 – INDEPENDENT READING**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**RP & SE 700 – SEMINAR: REHABILITATION PSYCHOLOGY RESEARCH**

2-3 credits.

Continuing seminar for students in rehabilitation counseling; methods, research information, dissemination, and/or thesis development. May be repeated for credit.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**RP & SE 710 – MULTICULTURAL ISSUES IN SPECIAL EDUCATION**

3 credits.

This course is designed to engage participants in an exploration and discussion of issues and trends in special education as relates to the diversity of populations, based on race/ethnicity, socioeconomic backgrounds, disability label, gender, language dominance, etc., receiving special education.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**RP & SE 715 – EQUITY AND FULL PARTICIPATION FOR INDIVIDUALS WITH SIGNIFICANT DISABILITIES**

3 credits.

Analysis of historical and contemporary trends and issues pertaining to persons with significant disabilities (i.e., significant intellectual disability, multiple disabilities, and autism spectrum disorder) across the lifespan. Topics include: an overview of the field of significant disabilities, historical trends, and current directions in curriculum design for students with significant disabilities, and valued outcomes for persons with significant disabilities.

**Requisites:** Declared in Special Education or Rehabilitation Psychology graduate program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**RP & SE/COUN PSY/CURRIC/ED POL/ED PSYCH/ELPA 719 – INTRODUCTION TO QUALITATIVE RESEARCH**

3 credits.

Provides an overview of qualitative inquiry, examining assumptions, standards, and methods for generating and communicating interpretations. Methodological and theoretical works illustrate case study, ethnography, narrative, and action research. This course does not include a field method component.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**RP & SE 721 – ADDICTIONS COUNSELING**

3 credits.

This course provides an overview of the evidence-based practices and common practices for the treatment of addiction disorders. Emphasis is placed on training of the interventions used in the treatment of substance abuse and dependence.

**Requisites:** Declared in a Special Education or Rehabilitation Psychology graduate program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**RP & SE 725 – CAREER COUNSELING AND JOB PLACEMENT FOR PEOPLE WITH DISABILITIES**

3 credits.

Basic aspects of career development and job placement for people with disabilities.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**RP & SE/COUN PSY/PSYCH 729 – ADVANCED SOCIAL PSYCHOLOGY**

3 credits.

Intensive examination of theoretical conceptions in contemporary social psychology, including learning-theoretic, reinforcement, incentive, cognitive, and psychodynamic approaches, and research in selected topic areas reflecting these approaches, such as aggression, attitude formation and change, conformity, limitation and modeling, interpersonal attraction, perception of others, prosocial behavior, and social influence.

**Requisites:** Grad st or Sr st and cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**RP & SE/COUN PSY 730 – PROFESSIONAL COUNSELING ORIENTATION**

3 credits.

Provides a broad understanding of professional counselor roles and functions. Also provides a broad understanding of the ethical and legal standards for professional counselors. Students will familiarize themselves with the ACA Code of Ethics, as well as with credentialing standards and organizations relevant to the practice of mental health counseling.

**Requisites:** Declared in a Rehabilitation Psychology or Counseling Psychology graduate program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**RP & SE/COUN PSY/ED PSYCH 735 – LEGAL AND ETHICAL BASES OF COUNSELING AND PSYCHOLOGY**

3 credits.

Legal and ethical issues for psychologists, with an emphasis on the APA ethics code and Wisconsin statutes relevant to psychological research and practice.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**RP & SE/COUN PSY/ED PSYCH 736 – SEMINAR IN PSYCHOLOGY OF INDIVIDUAL DIFFERENCES**

3 credits.

Graduate-level seminar in the psychology of individual differences, providing broad and general coverage of theory and research related to individual and cultural differences.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**RP & SE/COUN PSY/ED PSYCH 737 – SEMINAR IN HISTORY AND SYSTEMS OF PSYCHOLOGY**

3 credits.

Graduate-level seminar in the history of psychology, providing broad and general coverage of the development of psychology as a scientific discipline. Includes coverage of philosophy of science and systems of psychological inquiry, with applications to current research in psychology.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017

**RP & SE 741 – COMPUTER SOFTWARE AND QUALITATIVE DATA ANALYSIS**

3 credits.

This course is designed to provide students opportunity to gain knowledge and skill for coding and analyzing qualitative data using NVivo, a qualitative analysis software package. Qualitative data includes audio, video, and visual artifacts and representations collected and created through interviews, document reviews, memos, and observation. It is a lab course; therefore, students bring their own data and work through analytic exercises following an individualized path to assignment completion. Readings and discussions will focus on epistemic perspective and analysis.

**Requisites:** RPSE 788 and RPSE 789 or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**RP & SE 777 – EDUCATING STUDENTS IN ALTERNATIVE SETTINGS**

3 credits.

Examines influences on the provision of high quality educational services to students who are confined, committed or selectively placed in alternative settings. For the purpose of this course, alternative settings will be defined as juvenile correctional facilities, day treatment and residential schools, and other non-traditional special schools for students with emotional and behavioral needs. Theoretical and historical perspectives on the role of educators and academic instruction in alternative settings will also be explored.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**RP & SE/COUN PSY/CURRIC/ED POL/ED PSYCH/ELPA 788 – QUALITATIVE RESEARCH METHODS IN EDUCATION: FIELD METHODS I**

3 credits.

Introductory field methods experience in qualitative research. Students will learn to define good research questions, determine which methods of data collection and analysis are useful for addressing those questions, engage in these methods, reflect on their utility in education research.

**Requisites:** CURRIC/ED POL/RP SE/COUN PSY/ELPA/ED PSYCH/COUN PSY/CURRIC/ED POL/ELPA/RP & SE 719**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**RP & SE/COUN PSY/CURRIC/ED POL/ED PSYCH/ELPA 789 – QUALITATIVE RESEARCH METHODS IN EDUCATION: FIELD METHODS II**

3 credits.

Focus on data analysis and translation of finds and implications. Students will gain theoretical and practical knowledge and skills regarding coding and analysis techniques, use of qualitative analytic tools, strategies for sharing findings with audiences beyond research team.

**Requisites:** Students must have taken Curric/Ed Pol/RPSE/Coun Psych/ELPA/Ed Psych 788.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**RP & SE 801 – RESEARCH, POLICIES AND PRACTICES IN SPECIAL EDUCATION**

3 credits.

Issues, research and theory in the education of individuals with disabilities. Advanced technical writing and reporting.

**Requisites:** Post masters st cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**RP & SE 802 – SPECIALIZED STUDIES OF INDIVIDUALS WITH DISABILITIES**

3 credits.

Links among research, theory and practice in relation to major contemporary issues. Part of initial 2 crse requirement in spec educ doctoral study, 801-802

**Requisites:** Post masters st cons inst.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**RP & SE 803 – CURRENT ISSUES IN SPECIAL EDUCATION**

1 credit.

Required of all full-time graduate students in special education; student research and current topics of special interest. D. stdts in spec ed

**Requisites:** Req of all full-time Ph.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014



**RP & SE 810 – REHABILITATION COUNSELING PSYCHOLOGY-TECHNIQUES**

2-3 credits.

Counseling tools and techniques as used in the rehabilitation process with disabled or disadvantaged persons; use of counseling theory and techniques, diagnostic procedures and the decision-making process, and relationships within a multi-disciplinary team.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**RP & SE 820 – REHABILITATION COUNSELING PSYCHOLOGY-THEORIES AND ISSUES**

2-3 credits.

Theoretical bases of counseling and related individualized procedures used in rehabilitation counseling; relevance for professional practice with physically, mentally and culturally handicapped persons; evaluation of related research.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**RP & SE/ELPA 835 – LEADERSHIP FOR INCLUSIVE SCHOOLING**

3 credits.

Examines historical and organizational context of special education administration at the federal, state and local levels. Includes policy implementation, constituency management, coordination, communication, and current issues.

**Requisites:** ELPA 702 735**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**RP & SE 840 – REHABILITATION COUNSELING PSYCHOLOGY-GROUP PROCEDURES**

3 credits.

Theory, technique, and supervised practice in conducting group counseling and related procedures with persons with physical and mental handicaps.

**Requisites:** Crses in counseling thry tech cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**RP & SE/COUN PSY 850 – CONSULTATION PROCEDURES FOR COUNSELORS**

3 credits.

A systematic investigation of and the application of consultation procedures for counselors in educational, community, and rehabilitative agencies. Consultation as applied with individuals and organizational structures.

**Requisites:** Cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**RP & SE 860 – REHABILITATION COUNSELING PSYCHOLOGY-CLINICAL PRACTICE SEMINAR**

1 credit.

Concurrent seminar for clinical practice students in 880, 890, and 900 or 910.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**RP & SE 870 – SEMINAR: ASSESSMENT IN REHABILITATION PSYCHOLOGY**

3 credits.

Evaluation of current literature related to theory, models, methods and practice in assessment.

**Requisites:** Ed Psych 370, 371, 372, or RP SE 340, or equiv, ED Psych 561, or Psych 615, or equiv, or written cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**RP & SE 871 – FOUNDATIONS OF SPECIAL EDUCATION**

3 credits.

This course is designed to engage participants in a critical exploration of Special Education issues and trends as located in social, cultural, philosophical, and historical contexts.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**RP & SE 872 – SEMINAR IN SPECIAL EDUCATION RESEARCH**

3 credits.

This course is designed to equip students with the knowledge and skills necessary to be thoughtful critical consumers and producers of education and special education research. The course is designed to:

(a) provide students with an overview of the variety of research methods and approaches typically used in special education and the utility of these methods and approaches in addressing educational problems and issues; (b) prepare students to critically appraise published peer-reviewed research in special education; (c) allow students to develop the skills necessary to summarize, synthesize and expand upon research already conducted on topics of personal and professional relevance; and (d) prepare students to communicate research ideas, findings, and implications for practice and future research to a variety of audiences in an effective and professional manner.

**Requisites:** RPSE 871**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**RP & SE 873 – PROFESSIONAL DEVELOPMENT FOR FUTURE SPECIAL EDUCATION RESEARCHERS AND FACULTY IN HIGHER EDUCATION**

1 credit.

The purpose of this course is to provide students with information and professional development on careers in academia. This repeatable course is designed for students to take multiple times to correspond to their developmental needs and professional development interests.

**Requisites:** Graduate student; RPSE 871**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**RP & SE 880 – REHABILITATION COUNSELING PSYCHOLOGY-SUPERVISED PRACTICUM I**

2-3 credits.

Practical experience in counseling handicapped persons.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**RP & SE 890 – REHABILITATION COUNSELING PSYCHOLOGY-SUPERVISED PRACTICUM II**

2-3 credits.

Practical experience in counseling handicapped persons.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**RP & SE 900 – REHABILITATION COUNSELING PSYCHOLOGY-SUPERVISED PRACTICUM III**

2-3 credits.

Practical experience in counseling handicapped persons.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**RP & SE 903 – PSYCHOSOCIAL THEORY AND RESEARCH IN REHABILITATION PSYCHOLOGY**

3-6 credits.

Review of theory and research.

**Requisites:** Cons inst or RP & SE 801 RP & SE 802**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**RP & SE 910 – REHABILITATION COUNSELING PSYCHOLOGY-INTERNSHIP**

6-12 credits.

Full-time supervised experience in a rehabilitation setting. Activities include: the work of the counselor on the job; the work of the counselor educator in supervision; research activity; counselor coordinator on the job.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**RP & SE 920 – REHABILITATION COUNSELING PSYCHOLOGY-COUNSELING SUPERVISION**

3 credits.

Designed to help supervisors-in-training gain the knowledge and skills necessary to supervise practicing rehabilitation counselors. Emphasis will be given to the supervisory relationship and process of individual and group supervision. The course will also explore supervisory roles, evaluation methods, supervision research, legal and ethical issues, and socio-cultural issues in supervision. Practical application of these skills will be acquired, under faculty supervision, through the direct supervision of master's level students in the rehabilitation counseling program.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**RP & SE 921 – INTERNSHIP: ADVANCED PROFESSIONAL PRACTICES**

1-3 credits.

Field work in therapeutic intervention, organization and administration, and clinical needs assessment within various special education service delivery settings. Opportunity to relate relevant theoretical backgrounds to clinical organization and field problems.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**RP & SE/COUN PSY 925 – SEMINAR IN COUNSELING PSYCHOLOGY**

3 credits.

History, ethical and professional issues and problems, and current status of the psychological specialty of counseling psychology.

**Requisites:** Cons psych or rehab psych special ed majors or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**RP & SE 930 – REHABILITATION COUNSELING PSYCHOLOGY-PRACTICE TEACHING**

1-3 credits.

Supervised experience in teaching activities with concurrent instruction. May be repeated for credit.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**RP & SE 940 – REHABILITATION COUNSELING PSYCHOLOGY-SUPERVISED RESEARCH**

1-3 credits.

Supervised practicum participation in a rehabilitation research project. May be repeated for credit.

**Requisites:** Cons inst, only doctoral stdts**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**RP & SE 941 – INTERNSHIP: RESEARCH**

1-3 credits.

Supervised participation in conducting, evaluation, and reporting university level research. May be repeated for credit.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**RP & SE/COUN PSY/ED PSYCH 944 – INTERNSHIP PREPARATION**

1 credit.

Primary goal of this course is to help students in Counseling Psychology, Rehabilitation Psychology Special Education, and the School Psychology Program prepare for their internship by providing recourses, guidelines, and support in selecting and applying to internship sites.

**Requisites:** Dissertator status in the department**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2012**RP & SE 980 – ADULT COGNITIVE ASSESSMENT**

3 credits.

Administration, scoring and interpretation of measures of adult intelligence; introduction to neurophysiological and other cognitive assessment approaches; discussion of issues and applications in rehabilitation practice.

**Requisites:** Cons inst, Ph D stdts only, course in tests and measurement**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**RP & SE 983 – SEMINAR: PROFESSIONAL ISSUES IN REHABILITATION PSYCHOLOGY**

3-6 credits.

Historical development of rehabilitation programming and the professional specialties of rehabilitation psychology; basic philosophy, theoretical systems and processes; professional and scientific ethics; and other professional issues.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**RP & SE 984 – SEMINAR: PRINCIPLES OF BEHAVIOR CHANGE IN REHABILITATION PSYCHOLOGY**

3-6 credits.

Theories and principles underlying individual and group methods of management, education, and rehabilitation of handicapped individuals; assessment of methods as related to acquisition of new skills or modification of ineffective behavior; problems in the application of methods in the home, school, institutional, and work settings; unique considerations for specific handicapping conditions.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**RP & SE 985 – INDIVIDUALS WITH DISABILITIES: ADVANCED RESEARCH METHODOLOGIES**

3 credits.

**Requisites:** Cons inst, Grad st, 2 crses in stats, 1 crse in measurement**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**RP & SE 990 – RESEARCH OR THESIS**

1-3 credits.

**Requisites:** Cons inst (PhD stdts)**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**RP & SE/COUN PSY/ED PSYCH/PSYCH 995 – PREDOCTORAL INTERNSHIP**

0 credits.

Registration for Ph.D. students who have successfully defended the dissertation and are in the process of completing the required predoctoral internship.

**Requisites:** Successful dissertation defense**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**RP & SE 999 – INDEPENDENT READING**

1-3 credits.

**Requisites:** Cons inst (PhD stdts)**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**RELIGIOUS STUDIES (RELIG ST)****RELIG ST 101 – RELIGION IN GLOBAL PERSPECTIVE**

3 credits.

Foundational and thematic approaches in the academic study of religion applied across global religious systems.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**RELIG ST 102 – EXPLORING RELIGION IN SICKNESS AND HEALTH**

3 credits.

An introduction to the study of religion through the lens of health and health through the lens of religion employing approaches from the humanities and social sciences in conversation with health-related disciplines. It asks questions such as, How do religious peoples understand and live in sickness and health? How do people connect physical well-being to spiritual well-being? Medicine to meaning-making? How does looking at religion in sickness and health provide insight into its roles in a variety of cultures and contexts, globally and locally? How do health and religion connect particularly in situations of social marginalization and immigration? How does religion impact understandings of health and sickness beyond the borders of specific religious communities?

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**RELIG ST 103 – EXPLORING RELIGION AND SEXUALITY**

3 credits.

An introductory examination of "what religion is" via investigation of how religious traditions imagine, interrogate, and regulate sexuality using several approaches in the discipline of religious studies. It focuses, although not exclusively, on the religions of the Ancient Mediterranean (Greeks, Romans, Rabbinic Jews, and early Christians) and also considers the(re)construction of ideas and practices over time and contexts.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**RELIG ST/HISTORY/MEDIEVAL 112 – THE WORLD OF LATE ANTIQUITY (200-900 C.E.)**

4 credits.

History of the Mediterranean World from the late Roman Empire to the development of distinct European, Byzantine and Islamic civilizations (ca. 200-900 CE). Special attention will be paid to the rise and development of Christianity and Islam.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2012

**RELIG ST/HISTORY 131 – INTRODUCTION TO CHRISTIANITY: JESUS TO THE PRESENT**

4 credits.

Survey of Christianity from its beginnings to its diverse global manifestations today, including beliefs, institutions, ritual, lived experience, and interactions with broader culture and society.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**RELIG ST/CNSR SCI 173 – CONSUMING HAPPINESS**

3 credits.

As the saying goes, money can't buy happiness – but in modern America, we certainly try. This course will provide an overview of the study of happiness and well-being, examine how consumers engage in consumption in pursuit of happiness, as well as explore the emergence of the experience economy, and the intersection of money and well-being. Students will read academic and popular pieces on positive psychology, prosocial spending and explore the psychology of persuasion in the promises associated with this industry. In addition to integrating visual media, students will have the opportunity to experience first-hand whether the advice works in their own lives.

**Requisites:** None**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**RELIG ST 200 – INTRODUCTORY TOPICS IN RELIGIOUS STUDIES (HUMANITIES)**

3-4 credits.

Topics in religious studies in the humanities at an introductory level.

**Requisites:** Open to Freshman**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**RELIG ST/HISTORY/LCA 205 – THE MAKING OF THE ISLAMIC WORLD: THE MIDDLE EAST, 500-1500**

3-4 credits.

Development of society and culture in the Middle East and North Africa from the emergence of Islam (7th century) to early modern times.

**Requisites:** Open to All Undergrads**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**RELIG ST/LCA 206 – INTRODUCTION TO THE QUR'AN**

4 credits.

An introduction to the Qur'an, the sacred scripture of the Islamic religious tradition, focused on Muslim approaches to reading the text, its themes and history, and its use as a source of law, theology, aesthetics, politics, and practices of piety.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**RELIG ST/HISTORY 208 – WESTERN INTELLECTUAL AND RELIGIOUS HISTORY TO 1500**

3-4 credits.

Survey of key themes in Western intellectual history and religious thought from ancient Greece through the Renaissance, focusing on relationships among classical, Jewish, and Christian traditions.

**Requisites:** Sophomore standing or one HISTORY course or one REL ST course**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**RELIG ST/HISTORY 209 – WESTERN INTELLECTUAL AND RELIGIOUS HISTORY SINCE 1500**

3-4 credits.

A survey of major trends in Western intellectual history and religious thought in the modern era, a period that saw a new range of competing ideas about the divine, the human condition, justice and the social order, and the quest for meaning. The course explores shifts in Christian and Jewish thought as well as secular alternatives to religious outlooks. Topics include the impact of the Reformation, Scientific Revolution, and Enlightenment; radical critiques of religion; existentialism; theological responses to World Wars and the Holocaust; and civil rights and social justice. Sources include films, novels, autobiographies, essays, theological works, and political manifestos.

**Requisites:** Sophomore standing or one HISTORY class or one REL ST class**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**RELIG ST/JEWISH 211 – INTRODUCTION TO JUDAISM**

4 credits.

General introduction to Judaism covering the biblical, classical rabbinic, medieval, and modern periods.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016

**RELIG ST/HISTORY 212 – THE HISTORY OF WESTERN CHRISTIANITY TO 1750**

4 credits.

A survey of Christianity from being a small, persecuted sect in the Roman Empire to becoming the dominant religion of western Europe, penetrating into the lives of Europeans, fissuring into multiple churches, and spreading across the globe. Attention is given to doctrine, ritual, worship, architecture, images, and music.

**Requisites:** Sophomore standing or consent of instructor

**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**RELIG ST/CLASSICS/JEWISH/LITTRANS 227 – INTRODUCTION TO BIBLICAL LITERATURE (IN ENGLISH)**

4 credits.

Introduction to the literature and literary history of the Old Testament, Apocrypha, Dead Sea Scrolls, Talmud, and Midrashim.

**Requisites:** Not open to students that have completed HEBR ST 217

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**RELIG ST/HISTORY 230 – JUDAISM, CHRISTIANITY, AND ISLAM: BRAIDED HISTORIES**

3 credits.

An examination of the braided histories of Judaism, Christianity and Islam from 2000 BCE to 2000 CE, emphasizing their theological, cultural, and political relationships.

**Requisites:** None

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**RELIG ST/ILS 234 – GENRES OF WESTERN RELIGIOUS WRITING**

3 credits.

Writing intensive course based on the conventions in which Western writers have expressed religious ideas. Readings from Jewish, Christian, and other spiritualities. Open to Fr

**Requisites:** Successful completion of or exemption from Com A requirement.

**Course Designation:** Gen Ed - Communication Part B

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**RELIG ST/E ASIAN/LCA 235 – GENRES OF ASIAN RELIGIOUS WRITING**

3 credits.

Writing intensive course based on the conventions in which Asian writers have expressed religious ideas. Readings introduce major Asian religious traditions and expressive genres. Open to Fr

**Requisites:** Successful completion of or exemption from Com A requirement.

**Course Designation:** Gen Ed - Communication Part B

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**RELIG ST/CLASSICS/JEWISH/LITTRANS 237 – BIBLICAL POETRY IN TRANSLATION**

3 credits.

A study of the poetry of the Hebrew Bible as literature within the context of other ancient Near Eastern poetry. Influence of biblical poetry on the Dead Sea Scrolls, New Testament, medieval Hebrew poetry, and Jewish and Christian liturgies.

**Requisites:** None

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**RELIG ST/LITTRANS/MEDIEVAL 253 – LITERATURE IN TRANSLATION: DANTE'S DIVINE COMEDY**

3 credits.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**RELIG ST/LITTRANS 257 – LITERATURES OF MUSLIM SOCIETIES IN TRANSLATION**

3 credits.

LCA majors and all Grads register for LCA/RELIG ST 357

**Requisites:** Open to Fr.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014



**RELIG ST/PHILOS 261 – INTRODUCTION TO THE PHILOSOPHY OF RELIGION**

3-4 credits.

Doctrines and arguments of Western and Eastern religious and philosophical traditions: deity, human nature, immortality, resurrection, religious experience, faith, reason, good, evil, etc.

**Requisites:** So st or cons inst**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2010**RELIG ST/E ASIAN/HISTORY 267 – ASIAN RELIGIONS IN GLOBAL PERSPECTIVE**

3-4 credits.

Comparative and thematic introduction to diverse Asian religious traditions, ideas and communities, and their relevance to human societies of the past and present..

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**RELIG ST/ENVIR ST 270 – ENVIRONMENT AND RELIGION**

3-4 credits.

What are sources on which members of religious communities draw in order to understand and address environmental change? This course explores how religious persons and communities confront global environmental questions and challenges today, with case studies drawn from culturally and religiously plural societies such as India and Indonesia. Introducing diverse varieties of Christianity, Islam, and Hindu and Buddhist systems, course gives overview of some approaches in the environmental humanities related to philosophy, history, sociology and anthropology, and ethics. Fulfills requirement for Environmental Studies and Religious Studies degree programs.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**RELIG ST 271 – RELIGION IN HISTORY AND CULTURE: THE WEST**

3 credits.

An interdepartmental, multidisciplinary survey of the major religious traditions of prehistory; the ancient near east; the ancient Mediterranean; biblical, post-biblical and contemporary Judaism; Christianity; Islam; and selected topics for comparative-historical study.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2014**RELIG ST/LCA 274 – RELIGION IN SOUTH ASIA**

3 credits.

Introductory survey of Hinduism, Buddhism, Islam, Sikhism, etc., and an examination of the cultural, historical, ritual, and philosophical foundations of South Asian religion.

**Requisites:** Open to Fr**Course Designation:** Breadth - Humanities

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**RELIG ST/JEWISH 278 – FOOD IN RABBINIC JUDAISM**

3-4 credits.

Rabbinic literature frames the fundamental attitudes for how Judaism relates to food. Students will examine the history of food in rabbinic Judaism. In addition, theories from the field of food studies will be applied to rabbinic texts.

**Requisites:** Open to Freshmen**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**RELIG ST 300 – AMERICA AND RELIGIONS**

3 credits.

Explores the colorful, contested relationship of religion and American (U.S.) culture. While surveying a variety of themes from Native American-European encounters to the present, the course employs significant court cases to focus on the tension between a quest for American consensus and an abiding religious and cultural pluralism.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**RELIG ST/GEN&WS 305 – WOMEN, GENDER AND RELIGION**

3 credits.

Explores themes significant to the impact of religion on women and women on religion, historically and today, across a diverse range of contexts.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No

**RELIG ST/E ASIAN/HISTORY/LCA 308 – INTRODUCTION TO BUDDHISM**  
3-4 credits.

The basic thought, practices and history of Buddhism, including selflessness and relativity, practices of meditation, merit-making and compassion from both local and translocal perspectives. Includes a discussion of Buddhism as a contemporary, North American religion.

**Requisites:** Open to Freshmen

**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**RELIG ST/HISTORY/MEDIEVAL 309 – THE CRUSADES: CHRISTIANITY AND ISLAM**  
3-4 credits.

An examination of the Crusades from both Christian and Islamic perspectives; the historical, social, and religious context and significance of the Crusades for both Christians and Muslims.

**Requisites:** So st

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**RELIG ST 311 – SECTS AND CULTS**  
3 credits.

An introduction to new religious movements in the U.S. frequently referred to as "sects," "cults," and "fringe religions."

**Requisites:** Sophomore standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**RELIG ST/HISTORY/MEDIEVAL 312 – THE MEDIEVAL CHURCH**  
3-4 credits.

The course covers the formation and development of exlesiastical institutions and religious life in Western Europe from the fourth century to the Protestant Reformation.

**Requisites:** Open to Fr with cons inst

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**RELIG ST/HISTORY/MEDIEVAL 318 – MEDIEVAL SOCIAL AND INTELLECTUAL HISTORY, 1200-1450**  
3-4 credits.

Emphasis on social change and intellectual developments.

**Requisites:** So st

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**RELIG ST/SLAVIC 325 – EASTERN CHRISTIANITY/RUSSIAN ORTHODOXY IN A GLOBAL CONTEXT**  
3 credits.

The course will focus on the history and doctrine of Eastern Christianity from its origins in the early Church through today, with special emphasis placed on the cultural manifestations of Orthodox doctrine, including liturgy, iconography, ritual practice.

**Requisites:** So st

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**RELIG ST 327 – CHRISTIANITY AND THE ALMIGHTY DOLLAR**  
3 credits.

Examines the relationships of Christian beliefs, ethics, spaces and practices to money, marketplace, wealth and poverty, consumption and business culture. It examines how Christians in a variety of situations and in a variety of ways shape and are shaped by capitalism and other economic forms. It focuses primarily on modern (19th-century) American contexts up to today. Global contexts and interactions with American religious cultures and well as earlier historical factors, however, figure prominently as well.

**Requisites:** Sophomore standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**RELIG ST/JEWISH/LITTRANS 328 – CLASSICAL RABBINIC LITERATURE IN TRANSLATION**  
3-4 credits.

Introduction to the literature of the Classical Rabbinic or Talmudic period of Judaism (2nd to 7th centuries CE). Historical and intellectual background; the interrelation of liturgy, legal and non-legal literature.

**Requisites:** Open to Freshmen

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**RELIG ST/HIST SCI/MED HIST 331 – SCIENCE, MEDICINE AND RELIGION**

3-4 credits.

Science, medicine and religion from antiquity to the present, with emphasis on Western civilization.

**Requisites:** Jr st and cons inst**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2011**RELIG ST/CLASSICS/HEBR-BIB/JEWISH/LITTRANS 332 – PROPHETS OF THE BIBLE**

4 credits.

An introduction to the thought, literature, and history of the prophets of ancient Israel (in English).

**Requisites:** CLASSICS/JEWISH/LITTRANS/RELIG ST/CLASSICS/JEWISH/LITTRANS 227 or Sophomore standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**RELIG ST 333 – EARLY CHRISTIAN LITERATURE: MATTHEW-REVELATION**

3 credits.

An exploration of Christianity's charter documents in the light of what modern scholarship has discovered about the New Testament's sociohistorical context, composition, theologies, and presentations of Jesus.

**Requisites:** None**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**RELIG ST/HISTORY 334 – THE REFORMATION**

3-4 credits.

The division of Western Christendom, 1500-1650, and its impact on Europe and the world.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2012**RELIG ST/CLASSICS/JEWISH 335 – KING DAVID IN HISTORY AND TRADITION**

3 credits.

An exploration of the literary and historical aspects of the text of 1-2 Samuel + 1 Kings 1-2; the history and archaeology of Jerusalem during the tenth century B.C.E.; and the varieties of ways in which the figure of King David has been received in subsequent religious and secular literature, visual art, music, television, and cinema.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**RELIG ST/FOLKLORE/LITTRANS/MEDIEVAL 342 – IN TRANSLATION: MYTHOLOGY OF SCANDINAVIA**

3-4 credits.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**RELIG ST/ANTHRO 343 – ANTHROPOLOGY OF RELIGION**

3-4 credits.

Anthropological approaches. Illustrated by critical considerations of outstanding contributions. Selected religious systems; areal and topical comparative studies; religion as an ethnographic problem.

**Requisites:** ANTHRO 104 or cons inst**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**RELIG ST/CLASSICS/JEWISH 346 – JEWISH LITERATURE OF THE GRECO-ROMAN PERIOD**

3 credits.

Jewish literature from 350 BCE to 150 CE. The Greek and Hebrew sources include stories, religious poetry, wisdom books and apocalyptic texts.

Readings (in translation) from the Apocrypha, Pseudepigrapha, and the Dead Sea Scrolls in their historical, cultural and literary setting.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016

**RELIG ST/E ASIAN 350 – INTRODUCTION TO TAOISM**

3-4 credits.

A study of the writings attributed to Lao-tzu and Chuang-tzu and their concepts, and the history and various aspects of religious Taoism. Consideration is given to Taoist influences on literature. Undergraduate majors register for 4 cr; non-majors and graduate majors register for 3 cr.

**Requisites:** So st; Undergrad majors register for 4 cr, Undergrad non-majors and Grad stdts register for 3 cr

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**RELIG ST/FOLKLORE 352 – SHAMANISM**

3 credits.

Survey of shamanism as a religious tradition and sociocultural force in Siberian, Asian, and Native American societies. Exploration of shamanic rituals, roles, cosmology. Cultural and political uses of shamanism in traditional and modern contexts.

**Requisites:** None

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

**RELIG ST/LCA 355 – HINDUISM**

4 credits.

An historical survey of Hindu scriptures, rituals, philosophies, and ethics from the ancient to the contemporary world. Concepts such as karma, yoga, and reincarnation will be put in the broader contexts of Hindu theism, worship, and law.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**RELIG ST/ENVIR ST/HIST SCI/LCA 356 – ISLAM, SCIENCE & TECHNOLOGY, AND THE ENVIRONMENT**

3-4 credits.

Survey of Muslim religious understandings of science, technology, nature and environment. Lectures and readings present a global perspective through case studies, covering sources such as the Qur'an, theology and law, and traditions of esoteric piety (mysticism), and historical and contemporary issues like medical ethics, virtual realities, and environmental change, challenge and crisis.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**RELIG ST/LCA 357 – LITERATURES OF MUSLIM SOCIETIES**

3 credits.

Survey in English of the literatures of the Islamic Middle East and South West Asia in Turkish, Persian and Arabic. Emphasis on comparative approaches within an Islamic cultural continuum and reactions to this heritage in the modern and post-modern periods.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**RELIG ST/FOLKLORE 359 – MYTH**

3 credits.

The relationship between myth and tale, history, culture. Myth research; methodological approaches; world mythologies; myth and modern times.

**Requisites:** So st

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**RELIG ST/ENGL/HISTORY 360 – THE ANGLO-SAXONS**

3 credits.

Life and literature during the Old English period (c450-c1100). Primary emphasis on the vernacular and Latin writings of the Anglo-Saxons themselves. Extensive historical and archaeological background; attention to the development and character of monasticism, to the production of manuscripts, etc. All reading in translation. Students who have taken English 360 prior to fall 2014 may not enroll in the course.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**RELIG ST 361 – EARLY CHRISTIAN LITERATURE: PAULINE CHRISTIANITY**

3 credits.

By conventional reckoning, Paul was a major contributor to the development of Christianity. This course analyzes both Paul's and other contemporary writings to assess the extent to which he contributed to the development of the early church.

**Requisites:** Open to Fr**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**RELIG ST/E ASIAN 363 – INTRODUCTION TO CONFUCIANISM**

3 credits.

The development of Confucianism in pre-Buddhist China emphasizing interactions with competing viewpoints. Particular attention to issues of morality and human nature, stressing the roots of Confucianism in more general theories of value. All readings in translation.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2014**RELIG ST/LCA 367 – JAINISM: RELIGION OF NON-VIOLENCE**

3 credits.

An examination of the theological, ritual, and social frameworks of the Jain tradition; explores the moral and physical implications of asceticism and non-violence from a Jain perspective through a study of sacred texts and contemporary practice.

**Requisites:** Open to Freshmen**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2012**RELIG ST/HISTORY/JEWISH/MEDIEVAL 368 – THE BIBLE IN THE MIDDLE AGES**

3 credits.

Medieval Bible and its shaping effect on medieval culture.

**Requisites:** Sophomore standing or consent of instructor**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2009**RELIG ST/AFRICAN/LCA 370 – ISLAM: RELIGION AND CULTURE**

3-4 credits.

The emergence and development of Islam; schism; theology; asceticism; speculative and popular mysticism; literatures in diverse Islamic languages.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**RELIG ST/ANTHRO/JEWISH 372 – JEWS OF CENTRAL AND EASTERN EUROPE**

3-4 credits.

Course will focus on main characteristics of Central and Eastern European Jews (Ashkenazim) in their cultural-historical development.

Open to Fr with cons inst

**Requisites:** So st or cons inst.**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2008**RELIG ST/ART HIST 373 – GREAT CITIES OF ISLAM**

3 credits.

This course offers a comparative study of the foundation and development of five great cities in the history of Islam: Cairo, Istanbul, Delhi, Mecca, and Isfahan. Architectural projects, ornamental idioms, and changes to the urban plan are studied from aesthetic and cultural perspectives. Integrating historical and religious studies, this course highlights the shifting nature of Islamic culture, from the tenth century CE to the present.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**RELIG ST/COM ARTS 374 – THE RHETORIC OF RELIGION**

3 credits.

Rhetorical character of religious controversy and sectarian persuasion in Western religion.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015

**RELIG ST/JEWISH 377 – JEWISH CULTURAL HISTORY (IN ENGLISH)**  
4 credits.

Survey of Jewish cultural history from the Biblical to Talmudic and early Muslim periods; and its interaction with other cultures, including Hellenistic, Roman, and Muslim.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**RELIG ST/HISTORY 379 – ISLAM IN IRAN**  
3 credits.

History of Islam in Iran from Arab conquest in the seventh century to the Islamic Revolution in 1978-89.

**Requisites:** So st

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**RELIG ST 400 – TOPICS IN RELIGIOUS STUDIES - HUMANITIES**  
3-4 credits.

Topics may include religion in specific societies or regions; religion in the arts; contemporary themes in religion.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**RELIG ST 401 – TOPICS IN RELIGIOUS STUDIES - SOCIAL STUDIES**  
3-4 credits.

Topics in religious studies in the social sciences.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**RELIG ST/LCA 402 – THOUGHT OF GANDHI**  
3 credits.

Critical analysis of Gandhi's social, political, and religious thought, tracing his experiences in South Africa and India, noting links between his concepts and classical Hinduism, examining criticisms raised against Gandhi's thought, and identifying contemporary continuities of Gandhi's thought in India, Europe, and the U.S.

**Requisites:** So st or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**RELIG ST 403 – TOPICS IN RELIGIOUS STUDIES-US ETHNIC STUDIES**  
3-5 credits.

Topics in Religious Studies-US Ethnic Studies. Topics in historical or contemporary religious culture and society pertaining to persistently marginalized racial or ethnic groups in the United States.

**Requisites:** Sophomore standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**RELIG ST/AFROAMER 404 – AFRICAN AMERICAN RELIGIONS**  
3 credits.

Explores the varieties of African American religious expressions from the colonial era to the present with emphasis on racism and resistance, marginalization and resilience, creative expression and the continued influence of Africa and the Caribbean.

**Requisites:** Sophomore standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**RELIG ST/LCA 421 – A SURVEY OF TIBETAN BUDDHISM**  
3 credits.

By studying the distinctively Tibetan forms of Buddhism, we also examine more general issues, such as the relationship between theory and practice, the politics of "world-making", and the connection between identity and experience.

**Requisites:** So st or cons inst; prev study of Buddhism strongly recommended

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**RELIG ST/POLI SCI 433 – RELIGION AND POLITICS**

3-4 credits.

Explores the relationships and interactions between religion and politics from a comparative perspective. The course will discuss the appropriate relationship between religion and state. In the first part of the course students will investigate the implications of the various ways in which the religion-state relationship have been involved in political conflict. Building on this, the course will then turn to several of the current issues in religion and politics asking: Why is religion apparently more important than ever despite an increasingly secular world? What is religious nationalism? What is fundamentalism? How can we explain the similarities and differences between religious fundamentalist movements across the globe? How should democratic states cope with the emergence of fundamentalist movements? In order to begin answering these questions, the course will integrate the theoretical frameworks we develop with explorations of the historical and local context of relevant case-studies from around the world.

**Requisites:** Sophomore standing and (POLI SCI 140, 120, RELIG ST 101, 102, 103, or INTL ST 101) or (POLI SCI 103 or 106 prior to fall 2017)

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**RELIG ST/ENGL 434 – MILTON**

3 credits.

Major poems and selected prose.

**Requisites:** 6 credits of introductory literature

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**RELIG ST/JEWISH/PHILOS 435 – JEWISH PHILOSOPHY FROM ANTIQUITY TO THE SEVENTEENTH CENTURY**

3 credits.

A survey of major philosophers and philosophical currents within Judaism from antiquity through the seventeenth century.

**Requisites:** Enrollment limited to students who have taken 3 credits in Philosophy

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**RELIG ST/HISTORY 437 – WESTERN CHRISTIANITY FROM AUGUSTINE TO DARWIN**

4 credits.

A survey of Christianity from the fourth century through the nineteenth. Explores the culture of Christianity—architecture, literature, images, and music—in order to understand how Christianity has become a world religion.

**Requisites:** Open to Fr with cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**RELIG ST/HISTORY/LCA 438 – BUDDHISM AND SOCIETY IN SOUTHEAST ASIAN HISTORY**

3-4 credits.

Theravada Buddhism in Southeast Asia; ideas and basic tenets; history and its impact on social and political institutions; the monastic order and relations with the states; roles in the early history up to the present; focus on Thailand and Burma.

**Requisites:** So st

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**RELIG ST/HISTORY 439 – ISLAMIC HISTORY FROM THE ORIGIN OF ISLAM TO THE OTTOMAN EMPIRE**

3-4 credits.

Political action and organization in medieval Islam (ca 600-1500), with focus on selected states.

**Requisites:** So st

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**RELIG ST/MEDIEVAL 440 – FRANCIS OF ASSISI: LITERATURE AND THE ARTS**

3 credits.

Francis of Assisi: Literature and the Arts." Focus on accounts of St. Francis's life as written by medieval authors (e.g., Bonaventure of Bagnoregio, Thomas of Celano, the Franciscan Brother Leo) as well as works written by Francis himself. Examination of the relevance of Francis's teachings to contemporary reflections regarding relationships with the Other, the environment and animals. Discussion of issues related to religion, politics, bio-politics and environmental studies.

**Requisites:** Sophomore standing or above

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**RELIG ST/LCA 444 – INTRODUCTION TO SUFISM (ISLAMIC MYSTICISM)**  
3 credits.

The rise and development of mysticism in Islam; basic Sufi doctrines, values and practices; life and works of important speculative and popular Sufi saints; Sufi brotherhoods in the Middle East, South Asia and North Africa.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**RELIG ST/JEWISH 448 – CLASSICAL RABBINIC TEXTS**  
3 credits.

Introduction to the language and literature of the rabbinic period in Judaism (2nd-7th century CE). Acquisition of language skills to read Hebrew texts of this period, including Mishna, Tosephta, and Midrash.

**Requisites:** Hebrew 202 or 324 or consent of instructor

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**RELIG ST/E ASIAN/LCA 466 – BUDDHIST THOUGHT**  
3 credits.

Survey of the fundamental trends in Buddhist thought through the works of major philosophers. Themes include the concept of "selflessness" and concomitant theories of essencelessness, perception, language and rationality. Previous study of Buddhism or philosophy is strongly recommended. Prev study of Buddhism or philos strongly recommended.

**Requisites:** So st or cons inst.

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**RELIG ST/HISTORY 470 – RELIGIOUS THOUGHT IN MODERN EUROPE**  
3-4 credits.

History of religious thought in modern Europe (19th and 20th centuries) as reflected in theology, philosophy, literature, and political and social theory. Major emphasis on Protestant and Roman Catholic traditions but with additional discussion of Judaism and Orthodoxy.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**RELIG ST 472 – CHRISTIAN LITERATURE: THE GOSPELS**  
3 credits.

The first century Gospels show how early Christians used traditions about Jesus' deeds and words to define themselves and others. This course investigates how those Gospels were composed and how their authors portrayed Jesus so as to address their concerns.

**Requisites:** None

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**RELIG ST/ART HIST 478 – ART AND RELIGIOUS PRACTICE IN MEDIEVAL JAPAN**  
3 credits.

A study of spaces, objects, and images within the context of religious belief and practice in Japan between 1300 and 1600, when great Zen monasteries grew up alongside older Buddhist/Shinto religious "megaplexes," and new salvationist sects spread throughout Japan. Knowledge of Asian religion recommended

**Requisites:** Undergrads: a prev crse in art hist or relig studies satisfaction of Com B requirement.

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**RELIG ST 500 – ADVANCED TOPICS IN RELIGIOUS STUDIES**  
2-4 credits.

Topics may include religion in specific contexts, religion and other disciplines or specific themes in Religious Studies.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**RELIG ST/PHILOS 501 – PHILOSOPHY OF RELIGION**  
3-4 credits.

Analysis of religious experience and activity, and examination of principal religious ideas in light of modern psychology, philosophy, science, and anthropology.

**Requisites:** Junior standing

**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**RELIG ST/PHILOS 502 – SPECIAL TOPICS IN PHILOSOPHY OF RELIGION**

3 credits.

One or more topics selected from among the following: religious discourse, God, evil, survival, great philosophers of religion, etc. Variable content.

**Requisites:** Junior standing**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2013**RELIG ST/HISTORY 512 – THE ENLIGHTENMENT AND ITS CRITICS**

3 credits.

European intellectual history in the 17th and 18th centuries, from the Wars of Religion to the French Revolution. The course examines the rise of Enlightenment thought in relation to political and religious conflict, revolutions in science and philosophy, and the emergence of the public sphere. Special attention is devoted to the Enlightenment's relationship to religion and to critiques made of Enlightenment thinking, including by early Romanticism.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**RELIG ST/CURRIC/ED POL 516 – RELIGION AND PUBLIC EDUCATION**

3 credits.

Examines theories and practices related to the role of religion in public schooling and its accompanying tensions: political and philosophical, practical and personal.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**RELIG ST/CLASSICS/HISTORY 517 – RELIGIONS OF THE ANCIENT MEDITERRANEAN**

3 credits.

Ancient religions in their political, social and cultural contexts; topics include ritual, literary and artistic representations, religious persecutions, and/or modern approaches to the study of ancient religions. Chronological and geographical focus will vary between Greece, Rome, Judaea and Egypt.

**Requisites:** Sophomore Standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**RELIG ST/HISTORY/JEWISH 529 – INTELLECTUAL AND RELIGIOUS HISTORY OF EUROPEAN JEWRY, 1648-1939**

4 credits.

Main movements and trends of thought, religion, and culture as European Jewry gained emancipation and adjusted to mass society.

**Requisites:** Hist 119 or 120 or 512 or 513; or Hist/JEWISH/HISTORY 220; or Hebr St/Jewish 471 or 472**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2010**RELIG ST/HISTORY/LCA 547 – RELIGION, COLONIALISM & MODERNITY IN SOUTHEAST ASIA**

3 credits.

Examines changes in Southeast Asian religions (Buddhism, Confucianism, Islam) and experiences of modernity during the colonial period. Focus on religious and literary expressions from Thailand, Cambodia, Vietnam and Indonesia.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**RELIG ST 600 – RELIGION IN CRITICAL PERSPECTIVE**

3 credits.

Readings in the analysis of religion as a human phenomenon from various perspectives, such as: skeptical and sympathetic views toward religion; theories of religion's origins and functions; and examinations of religious awe. Should be taken junior year. Seminar format. Preference given to religious studies majors

**Requisites:** Jr st cons inst.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**RELIG ST 601 – SENIOR CAPSTONE RESEARCH AND COLLOQUIUM**

4 credits.

Integrated capstone course combining discussion of research methods, conduct of senior thesis research, and presentation and discussion of research results. Only for students in religious studies. This course takes the place of 695 + 697.

**Requisites:** Declared in Religious Studies major**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**RELIG ST/LCA/SOC 614 – SOCIAL STRUCTURES OF MUSLIM SOCIETIES**  
3 credits.

Analysis of legal, religious, familial, educational, and political institutions in Muslim societies, with special attention to the interaction between these institutions and contemporary social and economic processes.

**Requisites:** Intro Soc course (SOC/C&E SOC 140, 181, 210, or 211) or consent of instructor

**Course Designation:** Breadth - Social Science  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**RELIG ST/POLI SCI 618 – POLITICAL ISLAM**

3-4 credits.

Examines the political origins of contemporary Islamist movements and their impact upon Middle Eastern politics.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Social Science  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**RELIG ST/LCA 620 – PROSEMINAR: STUDIES IN RELIGIONS OF ASIA**

3 credits.

Historical and structural analysis and discussion of specific topics in one or more religions of Asia.

**Requisites:** So st or LCA/Relig St 273 or cons inst

**Course Designation:** Breadth - Humanities  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

**RELIG ST/LCA 623 – YOGA: METHODS AND GOALS**

3 credits.

Explores Yoga techniques propagated in the ancient Indian texts, as well as their adaptations in the Western world.

**Requisites:** So st one crse in S Asian religions or cons inst

**Course Designation:** Breadth - Humanities  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**RELIG ST/LCA 624 – MEDITATION IN INDIAN BUDDHISM AND HINDUISM**

3 credits.

Examines contemplative practices in the two major Indian religions, Buddhism and Hinduism. Covers practices described in ancient texts but also provides an overview of selected modern practices.

**Requisites:** So st one crse in S Asian religions or cons inst

**Course Designation:** Breadth - Humanities  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**RELIG ST/LCA 626 – GODS AND GODDESSES OF SOUTH ASIA**

3 credits.

Explores the deities of South Asia by examining the development of iconographic concepts and devotional practices associated with the worship of deities.

**Requisites:** So st one crse in S Asian religions or cons inst

**Course Designation:** Breadth - Humanities  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**RELIG ST/LCA/LEGAL ST 628 – HINDU LAW**

3 credits.

An examination of the nature, history, institutions, and thought of the Hindu legal tradition from its origins ca. 200BCE to the present.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Humanities  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**RELIG ST/LCA/SOC 634 – SOCIAL STRUCTURE OF INDIA**

3 credits.

Analysis of the major institutions of India with special attention to the relationship between Hindu community organization, caste and the family; the effects of political developments, population growth, industrialization, and urbanization.

**Requisites:** Intro Soc course (SOC/C&E SOC 140, 181, 210, or 211) or consent of instructor

**Course Designation:** Breadth - Social Science  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**RELIG ST/LCA 650 – PROSEMINAR IN BUDDHIST THOUGHT**

2-3 credits.

Advanced topics in Buddhist thought. 1 crse in Buddhism strongly recommended

**Requisites:** Jr st or cons inst.**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**RELIG ST/ANTHRO 666 – THE ANTHROPOLOGY OF SHAMANISM AND OCCULT EXPERIENCE**

3 credits.

Shamanism is a global form of religious practice involving direct contact with the spirit world through ecstatic and magical techniques. This course examines shamanic practice and considers allied forms of occult experience outside of the major world religions.

**Requisites:** So st**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2011**RELIG ST 681 – SENIOR HONORS THESIS**

3 credits.

Independent research undertaken by students in the honors program.

**Requisites:** Honors candidate cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2017**RELIG ST 682 – SENIOR HONORS THESIS**

3 credits.

Independent research undertaken by students in the honors program.

**Requisites:** Honors candidate cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2017**RELIG ST 691 – SENIOR THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2011**RELIG ST 692 – SENIOR THESIS**

3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2012**RELIG ST 695 – RESEARCH COLLOQUIUM FOR MAJORS**

1 credit.

Colloquium for students conducting research under Religious Studies 697, wch must be taken concurrently. Discussion of problems that arise in conducting research, interpreting evidence, and composing an argument. Students will present research-in-progress for group discussion. Con reg in Relig St 697

**Requisites:** Relig St 600, major in religious studies, cons inst.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2013**RELIG ST 697 – INDEPENDENT RESEARCH FOR MAJORS**

3 credits.

Original research project supervised by individual faculty; only for students majoring in religious studies. Topics depend upon students' interest and faculty members' expertise. Students must register concurrently in Religious Studies 695. Con reg in Relig St 695

**Requisites:** Relig St 600, major in religious studies, cons inst.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2013**RELIG ST 699 – DIRECTED STUDY**

1-4 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**RELIG ST/LCA 706 – SEMINAR: TOPICS IN THE HISTORY OF BUDDHISM**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2011**RELIG ST 799 – INDEPENDENT RESEARCH**

1-6 credits.

Independent research for graduate students.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2010

**RELIG ST/HISTORY 858 – SEMINAR IN PROBLEMS OF ISLAMIC HISTORY**

2-3 credits.

Social and economic history of North Africa and the Middle East in Islamic and modern times.

**Requisites:** Grad st knowledge of appropriate foreign language

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2011

**RELIG ST/PHILOS 961 – SEMINAR-PHILOSOPHY OF RELIGION**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2010

**RELIG ST/HISTORY 963 – AMERICAN RELIGIOUS HISTORY TO 1860**

3 credits.

The creation of a national religious culture from the earliest settlements to the mid-nineteenth century.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**RELIG ST 999 – INDEPENDENT WORK**

1-6 credits.

Individual tutorial on topics in religious studies.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2010

## RISK MANAGEMENT AND INSURANCE (R M I)

**R M I 300 – PRINCIPLES OF RISK MANAGEMENT**

3 credits.

Precedes advanced work in insurance; the nature of risk, principal techniques of risk management and the bases for decision making in management of business and personal risks.

**Requisites:** Econ 101 or equiv or ECON 111 (not open to Grad stdts)

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**R M I 365 – CONTEMPORARY TOPICS**

1-3 credits.

A course for the exploration of subject areas possibly to be introduced into the business curriculum.

**Requisites:** Prerequisite varies by topic

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**R M I 399 – READING AND RESEARCH-RISK MANAGEMENT**

1-6 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**R M I 610 – PROPERTY RISK MANAGEMENT**

3 credits.

Comprehensive analysis of loss control and transfer techniques (including insurance), risk management concepts, loss adjustment and underwriting problems, and profitability/regulatory issues concerning the insurance industry. Current topics: large-scale catastrophes (hurricanes and earthquakes), solvency, insurance coverages for property exposures, and loss control.

**Requisites:** RMI 300 or Real Est 306

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**R M I 615 – LIABILITY RISK MANAGEMENT**

3 credits.

Comprehensive analysis of economic services, benefits, rates and rating theory, loss adjustment problems, legal theory factors, risk management concepts, loss prevention and transfer techniques and government regulation of public liability insurance. Topics include: medical malpractice, no-fault auto insurance, professional liability, workers' compensation, products liability and pollution liability.

**Requisites:** RMI 300

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**R M I 620 – EMPLOYEE BENEFITS MANAGEMENT**

3 credits.

Nongovernmental schemes for treating the risks of superannuation of members of a group; property, liability, legal expense, life and health coverages available to groups; organizational characteristics, benefit structure and pricing of risk transfer schemes for groups; characteristics and funding of various types of pension plans; effects of ERISA.

**Requisites:** RMI 300 or MHR 305 required.

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**R M I 630 – LIFE AND HEALTH INSURANCE**

3 credits.

Determination of human life values and the conservation of those values through personal and business life and health insurance; a consumerist orientation that develops a scheme for rational buying behavior; analysis of contractual provisions; introduction to mathematics of life contingencies and pricing.

**Requisites:** RMI 300 or consent of instructor**Repeatable for Credit:** No**Last Taught:** Fall 2008**R M I 640 – MANAGEMENT OF INSURANCE ENTERPRISE**

3 credits.

Functional analysis of the operations of insurance organizations; legal organization, marketing systems, management and control, underwriting, rating, financial analysis, rate making and regulation.

**Requisites:** RMI 300**Repeatable for Credit:** No**Last Taught:** Fall 2017**R M I 645 – COMMERCIAL INSURANCE**

3 credits.

This course is designed to consider the structure, use, benefits, and limitations of corporate insurance products. Fundamental to the material is the economic underpinning of the insurance contract structure.

The major commercial property and liability insurance products will be analyzed in detail with the purpose of illustrating these economic principles and applying them to specific organizational situations.

**Requisites:** R M I 300**Repeatable for Credit:** No**Last Taught:** Fall 2017**R M I 650 – SUSTAINABILITY, ENVIRONMENTAL AND SOCIAL RISK MANAGEMENT**

3 credits.

The assessment, control, financing and management of risks deriving from pressures on and damages to the environment, workers and local/foreign communities. Risks include liability and directors and officers law suits, boycotts, regulations and competitors' actions.

**Requisites:** Jr st**Repeatable for Credit:** No**Last Taught:** Fall 2017**R M I 655 – RISK FINANCING TECHNIQUES**

3 credits.

Study of advanced risk management tools and markets for financing loss costs. Topics include: insurance, self-insurance, retrospective premium plans, risk retention and purchasing groups, reinsurance, insurance subsidiaries (captives), and other policyholder-owned facilities.

**Requisites:** R M I 300/700 or equivalent**Repeatable for Credit:** No**Last Taught:** Fall 2017**R M I 660 – RISK ANALYTICS AND BEHAVIORAL SCIENCE**

3 credits.

This course aims to enhance students' ability to navigate uncertainty. The course provides an overview about what we know about the challenges people face in situations with risk and uncertainty. We will use that knowledge to help students identify decision-making biases and to build a framework students can use for thinking clearly about decisions in uncertain environments. We will introduce techniques for improving our understanding of risk and uncertainty and the potential consequences of our choices. Finally, throughout the course we will practice working through making inferences and decisions in the face of ambiguity.

**Requisites:** RMI 300/700 and GEN BUS 306 or GEN BUS 704**Repeatable for Credit:** No**Last Taught:** Fall 2016**R M I 700 – PRINCIPLES OF RISK MANAGEMENT**

3 credits.

Background for advanced work in insurance. Nature of risk, principal techniques of risk management, and the bases for decision making in management of business and personal risks.

**Requisites:** Grad St ECON 101 or 103**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**R M I/GEN BUS 701 – MANAGING LEGAL RISKS**

3 credits.

Legal implications for business managers of selected areas of the law including negligence, contract, intellectual property, officer/director liability, financing the business enterprise, and employment and trade regulation; introduction to the legal process, including alternative dispute resolution systems.

**Requisites:** Grad standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**R M I 710 – RISK MANAGEMENT**

2 credits.

The purpose of risk management is to minimize the adverse consequences of variability. Topics include the general philosophy of risk management, environmental factors affecting risk, options to manage risk, and decision processes to select among those options.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**R M I 765 – CONTEMPORARY TOPICS**

1-4 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**R M I 799 – READING AND RESEARCH-RISK MANAGEMENT**

1-6 credits.

Individual work suited to the needs of graduate students may be arranged both during regular sessions and the intersession periods.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**R M I 815 – RISK FINANCING TECHNIQUES**

3 credits.

Study of advanced risk management tools and markets for financing loss costs. Topics include insurance, self-insurance, retrospective premium plans, risk retention and purchasing groups, reinsurance, insurance subsidiaries (captives), and other policyholder owned facilities.

**Requisites:** RMI 700 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2009**R M I 820 – ADVANCED TOPICS IN RISK MANAGEMENT**

3 credits.

Examination of data collection and analysis methods for risk management decisions. Analysis of qualitative and quantitative data to support transfer, retention, and loss control decisions, including loss trending, and evaluation of regulatory controls.

**Requisites:** RMI 700 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**R M I 875 – SEMINAR-RISK MANAGEMENT AND INSURANCE**

3 credits.

Continuation of RMI 870.

**Requisites:** Two crses in actuarial sci, risk insurance**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**R M I 920 – SEMINAR IN ACTUARIAL SCIENCE, RISK MANAGEMENT & INSURANCE I**

3 credits.

Doctoral seminar in actuarial science, risk management and insurance with emphasis on developing an appreciation of existing literature and appropriate skills to conduct own scholarly work in the field.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**R M I 930 – SEMINAR IN ACTUARIAL SCIENCE, RISK MANAGEMENT & INSURANCE II**

3 credits.

Doctoral seminar in actuarial science, risk management and insurance, with emphasis on developing an appreciation of existing literature and appropriate skills to conduct own scholarly work in the field.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**R M I 990 – RISK & INSURANCE INDEPENDENT RESEARCH PHD THESIS**

1-12 credits.

Individual work to complete dissertation requirement of Ph.D. program.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**R M I 999 – READING AND RESEARCH-RISK MANAGEMENT AND INSURANCE PHD**

1-6 credits.

Individual work suited to the needs of Ph.D. students may be arranged both during the regular sessions and during the intersession periods.

**Requisites:** PhD st cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017

## SCANDINAVIAN STUDIES (SCAND ST)

**SCAND ST 101 – FIRST SEMESTER NORWEGIAN**

4 credits.

Spoken and written Norwegian for students without previous knowledge; lab.

**Requisites:** Open to Freshmen**Course Designation:** Frgn Lang - 1st semester language course Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SCAND ST 102 – SECOND SEMESTER NORWEGIAN**

4 credits.

Continuation of 101

**Requisites:** Scand St 101**Course Designation:** Frgn Lang - 2nd semester language course Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**SCAND ST 111 – FIRST SEMESTER SWEDISH**

4 credits.

Spoken and written Swedish for students without previous knowledge; lab.

**Requisites:** Open to Freshmen**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SCAND ST 112 – SECOND SEMESTER SWEDISH**

4 credits.

Continuation of 111

**Requisites:** Scand St 111**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**SCAND ST 121 – FIRST SEMESTER DANISH**

4 credits.

Spoken and written Danish for students without previous knowledge; lab.

**Requisites:** Open to Fr**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SCAND ST 122 – SECOND SEMESTER DANISH**

4 credits.

Continuation of 121

**Requisites:** Scand St 121**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**SCAND ST 131 – FIRST SEMESTER FINNISH**

4 credits.

Spoken and written Finnish for students without previous knowledge.

**Requisites:** None**Course Designation:** Frgn Lang - 1st semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SCAND ST 132 – SECOND SEMESTER FINNISH**

4 credits.

Spoken and written Finnish for students without previous knowledge.

Continuation of Scand St. 131

**Requisites:** Scand St 131**Course Designation:** Frgn Lang - 2nd semester language course  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**SCAND ST 201 – SECOND YEAR NORWEGIAN**

4 credits.

Rapid reading of suitable texts by modern writers.

**Requisites:** Scand St 102 or cons inst**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SCAND ST 202 – SECOND YEAR NORWEGIAN**

4 credits.

Continuation of 201

**Requisites:** Cons inst or Scand St 201**Course Designation:** Frgn Lang - 4th semester language course  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**SCAND ST 211 – SECOND YEAR SWEDISH**

4 credits.

Reading of selections from Swedish writers, grammar review and conversation.

**Requisites:** Scand St 112 or cons inst**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SCAND ST 212 – SECOND YEAR SWEDISH**

4 credits.

Continuation of 211

**Requisites:** Cons inst or Scand St 211**Course Designation:** Frgn Lang - 4th semester language course  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**SCAND ST 221 – SECOND YEAR DANISH**

4 credits.

**Requisites:** Scand St 122 or cons inst

**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SCAND ST 222 – SECOND YEAR DANISH**

4 credits.

**Requisites:** Cons inst or Scand St 221

**Course Designation:** Frgn Lang - 4th semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SCAND ST 251 – READINGS IN NORWEGIAN LITERATURE**

3-4 credits.

Prose, poetry, and drama read in the original. Norwegian used extensively as classroom language.

**Requisites:** Scand St 202 or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SCAND ST 261 – READINGS IN SWEDISH LITERATURE**

3-4 credits.

Prose, poetry, and drama read in the original. Swedish used extensively as classroom language.

**Requisites:** Scand St 212 or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SCAND ST 271 – READINGS IN DANISH LITERATURE**

3-4 credits.

Prose, poetry, and drama read in the original. Danish used extensively as classroom language.

**Requisites:** Scand St 222 or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SCAND ST 276 – SCANDINAVIAN LIFE AND CIVILIZATION**

3 credits.

Scandinavian culture in its widest aspects, including present-day trends and problems, given cooperatively by staff members.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SCAND ST 284 – THE "SCANDINAVIAN MODERN" PHENOMENON IN ARTS AND LITERATURE**

3 credits.

Exploration of the phenomenon of "Scandinavian Modern" within the context of its cultural origins and its multifaceted manifestations in early- to mid-20th century Scandinavian literature, music, visual arts, film, material culture, architecture, and public life. Open to Fr

**Requisites:** Enrollment in Honors.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**SCAND ST 296 – THE SCANDINAVIAN HERITAGE IN AMERICA**

3 credits.

Nineteenth century Scandinavian immigration, with field trips.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

**SCAND ST 299 – DIRECTED STUDY**

1-3 credits.

Graded on a lettered basis; requires cons inst

**Requisites:** Jr st.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SCAND ST 301 – INTENSIVE FINNISH I**

7 credits.

Classroom drills and laboratory practice for 8 hours per week. Emphasis on spoken Finnish.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**SCAND ST 302 – INTENSIVE FINNISH II**

7 credits.

Classroom work and laboratory practice for 8 hours per week. Emphasis on written Finnish.

**Requisites:** Scand St 301**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2012**SCAND ST 373 – MASTERPIECES OF SCANDINAVIAN LITERATURE:  
FROM THE MIDDLE AGES TO 1900**

3-4 credits.

From the Middle Ages to the 1970's. 4th credit for Com-B stdts only. Open to Freshmen

**Requisites:** 2 yrs of a Scand language or consent of instructor.**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SCAND ST 374 – MASTERPIECES OF SCANDINAVIAN LITERATURE: THE  
TWENTIETH CENTURY**

3-4 credits.

Continuation of 373 4th credit for Com-B stdts only

**Requisites:** 2 yrs of a Scand language or consent of instructor.**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**SCAND ST 375 – THE WRITINGS OF HANS CHRISTIAN ANDERSEN**

3-4 credits.

Andersen's art and vision through analysis of his major tales and selections from his other works. 4th cr for Com-B stdts only. Open to Fr

**Requisites:** 2 yrs of a Scand lang or cons inst.**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2014**SCAND ST 401 – CONTEMPORARY SCANDINAVIAN LANGUAGES**

3 credits.

Intensive work in spoken and written Danish, Norwegian, and Swedish, based on contemporary readings, for undergraduate and graduate students with a basic command of a Scandinavian language. Required of graduate students.

**Requisites:** 3 yrs of Norwegian, Danish or Swedish or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**SCAND ST 404 – LANGUAGES OF NORTHERN EUROPE**

2-4 credits.

Introduction to languages of Northern Europe not covered by other department courses (e.g., Sami, Estonian). Practice in language, accompanied by introduction to grammar, culture, and literature. Other language-related topics offered occasionally; check timetable for details.

**Requisites:** Cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SCAND ST 405 – NYNORSK SPRAK OG KULTUR**

3 credits.

Examines the historical and cultural relevance of Nynorsk for modern Norway through analysis of a variety of texts in the original language.

**Requisites:** Scand St 251 or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2010**SCAND ST/MEDIEVAL 407 – OLD NORSE**

3 credits.

Reading of texts from the Sagas and Eddas, with comparative study of linguistic structure and literary style.

**Requisites:** Grad st or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016

**SCAND ST/MEDIEVAL 408 – OLD NORSE**

3 credits.

Continuation of 407

**Requisites:** Scand St 407 or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SCAND ST/MEDIEVAL 409 – SURVEY OF OLD NORSE-ICELANDIC LITERATURE**

3 credits.

Eddic and skaldic poetry; homilies and saints' lives, kings' sagas, sagas of the Icelanders; mythical-heroic sagas and romances; rimur.

**Requisites:** Grad st or cons inst; or Scand St/MEDIEVAL/SCAND ST 407

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SCAND ST 410 – INTRODUCTION TO SCANDINAVIAN LINGUISTICS**

3 credits.

Scandinavia as a linguistic area. The main historical developments and structural features of the Scandinavian languages.

**Requisites:** Grad st or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SCAND ST 411 – AREAS IN SCANDINAVIAN LITERATURE**

1 credit.

Concentrated study of topics within Scandinavian literature.

**Requisites:** 5 semesters or equiv in a Scand language

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SCAND ST 414 – HISTORY OF THE SCANDINAVIAN LANGUAGES I: PROTO- TO COMMON SCANDINAVIAN**

3 credits.

Scandinavian languages from Proto-Nordic to the present day standard languages.

**Requisites:** Grad st or cons inst; Scand St 410

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**SCAND ST 415 – HISTORY OF THE SCANDINAVIAN LANGUAGES II: STANDARD LANGUAGES**

3 credits.

Study of Scandinavian languages from the early Scandinavian period to the present day.

**Requisites:** Grad st or cons inst; Scand St 414

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**SCAND ST 419 – SCANDINAVIAN CHILDREN'S LITERATURE**

4 credits.

Forms and themes of Scandinavian children's literature from the nineteenth century to the present. Exploration of the dominant concerns of authors, adult and non-adult audiences. Film adaptations and Scandinavian-American materials included.

**Requisites:** Jr st 2 yrs of a Scand lang

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**SCAND ST 420 – THE WOMAN IN SCANDINAVIAN LITERATURE**

4 credits.

Works by Scandinavian writers of the nineteenth and twentieth century reflecting the role of woman in literature.

**Requisites:** 2 yrs of a Scand lang or equiv

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**SCAND ST 421 – ADVANCED TOPICS IN NORDIC STUDIES**

1-3 credits.

Advanced study of topics in Nordic and Nordic-American history, culture, and/or folklore.

**Requisites:** Junior standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014**SCAND ST 422 – THE DRAMA OF HENRIK IBSEN**

4 credits.

Intensive study of dramatic production and the part played by Ibsen as the founder of modern drama.

**Requisites:** Jr St 2 yrs of a Scand lang**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**SCAND ST 423 – THE DRAMA OF AUGUST STRINDBERG**

4 credits.

Ideas and dramatic practice in the plays.

**Requisites:** Jr St 2 yrs of a Scand lang**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2012**SCAND ST 424 – NINETEENTH-CENTURY SCANDINAVIAN FICTION**

3-4 credits.

Readings in such authors as Hans Christian Andersen, Steen Steensen Blicher, C.J.L. Almquist, Alexis Kivi, Bjornstjerne Bjornson, Jonas Lie, Alexander Kielland, Jens Peter Jacobsen, Henrik Pontoppidan, August Strindberg, Selma Lagerlof, and Johs V. Jensen.

**Requisites:** Jr St 2 yrs of a Scand lang**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SCAND ST 425 – KNUT HAMSUN AND THE 20TH CENTURY NORWEGIAN NOVEL**

4 credits.

Novels and other writings.

**Requisites:** Jr st 2 yrs of a Scand lang**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2009**SCAND ST 426 – KIERKEGAARD AND SCANDINAVIAN LITERATURE**

4 credits.

Close study of a limited number of writers (e.g., Kierkegaard, Andersen, Brandes, Hamsun, Nexø, Undset, Lagerkvist) for their intellectual content.

**Requisites:** Jr St 2 yrs of a Scand lang**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2012**SCAND ST 427 – CONTEMPORARY SCANDINAVIAN LITERATURE**

4 credits.

Twentieth-century literary traditions and experiments, with attention to major movements, genres, and authors.

**Requisites:** Jr St 2 yrs of a Scand lang**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SCAND ST/LITTRANS 428 – MEMORY AND LITERATURE FROM PROUST TO KNAUSGARD**

3 credits.

Investigates the relations between theories of memory, both individual and collective, and modern literary representations of remembering.

We survey seminal conceptions of memory in the interdisciplinary field of memory studies, investigating topics such as nostalgia, trauma, personal and cultural identity, war and Holocaust, sites of memory, and autobiographical narrative. Through the avenues opened up by these theoretical frameworks, we consider the narrative forms as well as the ethical and political dimensions of remembering in major novels by Marcel Proust, W. G. Sebald, and Karl Ove Knausgaard.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**SCAND ST 429 – MYTHOLOGY OF SCANDINAVIA**

4 credits.

First: an introduction to the pagan religion of Scandinavia, with readings in some of the primary sources (eddaic and skaldic poetry, Snorri Sturluson's Prose Edda, etc.) Second: broadens the definition of mythology to embrace concepts applicable to more recent literature and literary criticism.

**Requisites:** Jr St 2 yrs of a Scand lang**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SCAND ST/MEDIEVAL 430 – THE VIKINGS**

4 credits.

Within a historical framework, a thorough introduction to the culture, literature, and religion of the Vikings. Knowledge of a Scand lang is not required

**Requisites:** Jr St or cons inst.**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2012**SCAND ST/HISTORY 431 – HISTORY OF SCANDINAVIA TO 1815**

3 credits.

Political, social, economic and cultural developments of Scandinavia through the "Viking Age" to the break-up of Sweden-Finland and Denmark-Norway; emphasis on the interplay between social and political forces and institutions and the area's relationship with the rest of Europe.

**Requisites:** So st**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SCAND ST/HISTORY 432 – HISTORY OF SCANDINAVIA SINCE 1815**

3 credits.

Political, social, economic, and cultural development: political realignments and rise of nationalism, industrialization and rise of liberalism and socialism, democratization, independence struggles and social conflict, evolution of welfare states, World War II and its aftermath.

**Requisites:** So st**Course Designation:** Breadth - Either Humanities or Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**SCAND ST 433 – THE SCANDINAVIAN TALE AND BALLAD**

4 credits.

Readings in the medieval ballads, in the legends and tales recorded during the nineteenth century, and in the nineteenth and twentieth century imitations of these genres.

**Requisites:** 2 yrs of a Scand lang**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**SCAND ST 434 – THE ART OF ISAK DINESEN/KAREN BLIXEN**

4 credits.

Blixen's tales and biographical fiction.

**Requisites:** 2 yrs of a Scand lang**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**SCAND ST 435 – THE ICELANDIC SAGAS**

4 credits.

The prose narratives of medieval Iceland.

**Requisites:** Jr st 2 yrs of a Scand lang**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**SCAND ST 436 – TOPICS IN SCANDINAVIAN LITERATURE**

3-4 credits.

An examination of selected topics in Scandinavian literature designed for Scandinavian majors and other students.

**Requisites:** Prerequisites vary by topic taught**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**SCAND ST 437 – MODERN SCANDINAVIAN DRAMA**

4 credits.

Examination of the theater of Scandinavia in the wake of Henrik Ibsen and August Strindberg that places modern Nordic theater in a wider European context.

**Requisites:** Jr st 2 yrs of target language

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**SCAND ST/FOLKLORE 440 – SCANDINAVIAN AMERICAN FOLKLORE**

3 credits.

Examines the verbal, musical, customary, and material folklore of Scandinavian Americans, with emphasis on the upper Midwest. Requires field and archival research.

**Requisites:** Jr st

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SCAND ST/FOLKLORE 443 – SAMI CULTURE, YESTERDAY AND TODAY**

4 credits.

Interdisciplinary study of Sami (Lapp) people of Scandinavia past and present. Indigenous modes of expression and worldview, contemporary cultural and political activism. Extensive discussion of connections to Native American and Inuit experiences; rise of U.S. and other indigenous peoples' movements.

**Requisites:** Jr st or cons inst

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**SCAND ST/MEDIEVAL 444 – KALEVALA AND FINNISH FOLK-LORE**

4 credits.

Kalevala and the oral literature of Finland.

**Requisites:** Jr st or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**SCAND ST/FOLKLORE/MEDIEVAL 446 – CELTIC-SCANDINAVIAN CULTURAL INTERRELATIONS**

3 credits.

Examination of shared traditions and historical connections between the North and Northwest of Europe. Readings of medieval and pre-modern Scandinavian, Scottish, Welsh and Irish sagas, histories, tales. Discussion of the role of folklore in modern Celtic and Scandinavian societies.

**Requisites:** So st or above required, or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SCAND ST 450 – SCANDINAVIAN DECADENCE IN ITS EUROPEAN CONTEXT**

3-4 credits.

Examines the European context of literary decadence (Baudelaire, Huysmans, Wilde) and how it inspired some of Scandinavia's most important writers (Strindberg, Hamsun, Jacobsen).

**Requisites:** 2 yrs of a Scand lang or equivalent

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**SCAND ST 466 – GREENLAND - PAST, PRESENT, AND FUTURE**

3 credits.

Introduction to Greenland, the world's largest island, including history, geography, language, religion, culture, arts, literature, and existence in a postcolonial context, which recognizes the important cultural and economic ties with Denmark. A comparison with indigenous cultures in Alaska and Canada, sharing Inuit traditions.

**Requisites:** Open to Fr

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**SCAND ST 475 – THE WRITINGS OF HANS CHRISTIAN ANDERSEN FOR SCANDINAVIAN MAJORS**

4 credits.

In-depth discussion of selected texts, historical and literary background material, application and discussion of pertinent literary criticism, independent student presentations, and a research paper, in addition to the coursework done in Scand St 375. Open to Freshmen

**Requisites:** 2 yrs of Scand language or consent of instructor.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SCAND ST 476 – SCANDINAVIAN LIFE AND CIVILIZATION II**

4 credits.

Scandinavian culture in all its aspects ranging from past history up to contemporary trends in politics and ideologies. Open to Fr

**Requisites:** 2 yrs of Nordic lang or cons inst.

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SCAND ST 496 – THE SCANDINAVIAN HERITAGE IN AMERICA**

3 credits.

Nineteenth century Scandinavian immigration, with field trips.

**Requisites:** 2 yrs of a Scand lang or cons inst

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

**SCAND ST 501 – TAL OCH SKRIFT**

2 credits.

Training in oral and written presentation of specialized technical material in the Scandinavian languages.

**Requisites:** Scand St 401 and 402

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2012

**SCAND ST 510 – TOPICS IN SCANDINAVIAN LINGUISTICS**

3 credits.

Hands-on introduction to a topic in Scandinavian language study. Course topics designed to be relevant to graduates.

**Requisites:** Grad st or cons inst; Scand St 415

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2012

**SCAND ST 511 – PALEOGRAPHY AND PHILOLOGY - OLD NORSE**

3 credits.

A history of writing in Iceland 1150-1550 on the basis of manuscripts as principal sources of evidence for Old Norse-Icelandic.

**Requisites:** Scand St/MEDIEVAL/SCAND ST 407 or 408

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SCAND ST 520 – SPECIAL TOPICS**

3 credits.

**Requisites:** None

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SCAND ST/HISTORY 577 – CONTEMPORARY SCANDINAVIA: POLITICS AND HISTORY**

3-4 credits.

Social, economic, and ideological changes, institutions, and movements and their relationships with the political processes and structures in the Nordic states.

**Requisites:** Junior standing

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**SCAND ST 630 – FUNDAMENTALS OF BIBLIOGRAPHY AND RESEARCH**

3 credits.

Research resources and methodology; scholarly search and literary criticism.

**Requisites:** Grad st or cons inst

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SCAND ST 634 – SURVEY OF SCANDINAVIAN LITERATURE: 1500-1800**  
3 credits.

Reformation, Renaissance, Baroque, Rationalism, Pre-Romanticism.

**Requisites:** 2 yrs of a Scand lang or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**SCAND ST 635 – SURVEY OF SCANDINAVIAN LITERATURE: 1800-1890**  
3 credits.

Romanticism, Realism, and Naturalism.

**Requisites:** 2 yrs of a Scand lang or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SCAND ST 636 – SURVEY OF SCANDINAVIAN LITERATURE: 1890-1920**  
3 credits.

Fin de siecle, the beginnings of Modernism and Social Realism.

**Requisites:** 2 yrs of a Scand lang or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2000

**SCAND ST 681 – SENIOR HONORS THESIS**  
3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**SCAND ST 682 – SENIOR HONORS THESIS**  
3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**SCAND ST 698 – DIRECTED STUDY**  
1-6 credits.

Graded on Cr/N basis. Graded on a Cr/N basis; requires cons inst

**Requisites:** Sr st.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2007

**SCAND ST 699 – DIRECTED STUDY**  
1-6 credits.

Graded on a letter basis. Graded on a lettered basis; requires cons inst

**Requisites:** Sr st.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SCAND ST 710 – TOPICS IN DEPTH**  
1-2 credits.

Penetrating study of an important Scandinavian literary or linguistic topic. Content will vary with each offering.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**SCAND ST 799 – INDEPENDENT STUDY**  
1-6 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SCAND ST 901 – SEMINAR IN SPECIAL TOPICS**  
2-3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**SCAND ST 990 – RESEARCH AND THESIS**  
1-6 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SCAND ST 999 – INDEPENDENT READING**

1-6 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2011

## SCIENCE AND TECHNOLOGY STUDIES (STS)

**STS 201 – WHERE SCIENCE MEETS SOCIETY**

3 credits.

An overview of science and technology studies. Explores science and technology as central institutions in modern societies. Teaches approaches to analyzing social dimensions of recent advances in areas such as genetics, environment, Internet, surveillance, and nanotechnology..

**Requisites:** Prior college-level work in social studies (S, W, Y, or Z) or science (B, N, P, W, or X) or permission of instructor

**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STS 403 – SPECIAL TOPICS IN SCIENCE & TECHNOLOGY STUDIES**

3 credits.

An interdisciplinary exploration of one or more high profile issues motivating debate and discussion among science and technology studies scholars. Topics will vary.

**Requisites:** Sophomore standing

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

**STS 699 – DIRECTED STUDY**

1-3 credits.

Available for undergraduates interested in STS, who have completed STS 201, but is intended primarily as a means for ISSuES certificate students to fulfill their capstone requirement.

**Requisites:** STS 201; Jr/Sr St or cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**STS/CURRIC 734 – SCIENCE STUDIES AND SCIENCE EDUCATION**

3 credits.

Examination of the key ideas from the field of science and technology studies (history, philosophy, sociology of science, etc.) and how they have been taken up in both the school science curriculum as well as the science education research community.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**STS 901 – SCIENCE, TECHNOLOGY AND MEDICINE IN SOCIETY**

3 credits.

Designed to introduce students to key themes, issues and scholarship in the interdisciplinary fields of science and technology studies. Explores how different disciplinary perspectives contribute to and influence the questions, methods and theoretical approaches within particular fields of science studies.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STS 902 – CURRENT TOPICS IN SCIENCE AND TECHNOLOGY STUDIES**

1 credit.

Designed to introduce students to key themes, issues and scholarship in the interdisciplinary field of science and technology studies (STS). Participating faculty and speakers will be drawn from the social sciences, humanities, and physical and life sciences.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**STS 903 – SPECIAL TOPICS IN SCIENCE AND TECHNOLOGY STUDIES**

3 credits.

An interdisciplinary exploration of one or more high profile issues motivated debate and discussion among science and technology studies scholars. Topics will vary.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017



**STS 999 – INDEPENDENT STUDY IN SCIENCE AND TECHNOLOGY STUDIES**

1-6 credits.

A tutorial style course arranged between an STS graduate minor student and an STS faculty affiliate. The topic of the course, the specific reading requirements, writing, and student-faculty meetings will be outlined in a student-faculty "contract."

**Requisites:** Only graduate students may take this course and may only do so in consultation with Holtz Center director and the affiliated faculty member with whom the student intends to work

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

## SENIOR MEDICAL PROGRAM (SR MED)

**SR MED 812 – THIRD YEAR PRIMARY CARE CLERKSHIP**

1-8 credits.

The clerkship will be an outpatient clinic based eight-week continuity experience in two of the three primary care specialties (Family Medicine, Internal Medicine and Pediatrics).

**Requisites:** 3rd yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SR MED 813 – INTEGRATED CLINICAL NEUROSCIENCE CLERKSHIP**

1-6 credits.

Introduction to the examination (clinical, laboratory and imaging), diagnosis, and treatment of patients with commonly encountered diseases of the nervous system, as presented from the combined perspectives of medical neurology, surgical neurology, ophthalmology, rehabilitation medicine, and neuroradiology.

**Requisites:** 3rd yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

**SR MED 840 – SPECIAL FOURTH YEAR PRECEPTORSHIP/CLERKSHIP**

1-16 credits.

Individually arranged clinical tutorial/evaluation for fourth year students.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SR MED 852 – PRECEPTORSHIP-ASHLAND**

1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SR MED 853 – PRECEPTORSHIP-BEAVER DAM**

1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SR MED 854 – PRECEPTORSHIP-BELOIT**

1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**SR MED 855 – PRECEPTORSHIP-BLACK RIVER FALLS**

1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SR MED 856 – PRECEPTORSHIP-EAU CLAIRE**

1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SR MED 858 – PRECEPTORSHIP-GREEN BAY**

1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SR MED 859 – PRECEPTORSHIP-JANESVILLE**

1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SR MED 860 – PRECEPTORSHIP-LACROSSE**

1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SR MED 862 – PRECEPTORSHIP-MARSHFIELD**

1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SR MED 863 – PRECEPTORSHIP-MILWAUKEE**

1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SR MED 864 – PRECEPTORSHIP-MONROE**

1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SR MED 865 – PRECEPTORSHIP-RHINELANDER**

1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SR MED 866 – PRECEPTORSHIP-RICE LAKE**

1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SR MED 867 – PRECEPTORSHIP-SHAWANO**

1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SR MED 868 – PRECEPTORSHIP-SHEBOYGAN**

1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**SR MED 870 – PRECEPTORSHIP-VIROQUA**

1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SR MED 871 – PRECEPTORSHIP-WAUSAU**

1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**SR MED 872 – PRECEPTORSHIP-WOODRUFF**

1-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2012

**SR MED 873 – PRECEPTORSHIP-PRAIRIE DU SAC**

1-12 credits.

A required course for senior medical students, designed to improve their proficiency in patient care by providing them with increasing responsibility for the care of patients in a community under the supervision of an experienced preceptor.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

**SR MED 875 – PRECEPTORSHIP-MINONG**

1-12 credits.

Clinical elective for fourth year students.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SR MED 877 – PRECEPTORSHIP-DODGEVILLE**

1-12 credits.

Clinical elective for senior medical students.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**SR MED 879 – PRECEPTORSHIP - MADISON/MEADOWOOD CLINIC**

1-12 credits.

Clinical elective for senior medical students.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2009**SR MED 880 – PRECEPTORSHIP - CROSS PLAINS**

1-12 credits.

Clinical elective for senior medical students.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**SR MED 882 – PRECEPTORSHIP - FITCHBURG**

1-12 credits.

Clinical elective for senior medical students.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2010**SR MED 883 – PRECEPTORSHIP - REEDSBURG**

1-12 credits.

Clinical elective for senior medical students.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**SR MED 913 – EXTRAMURAL ELECTIVE-PREVENTIVE MEDICINE**

1-44 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SR MED 921 – EXTRAMURAL ELECTIVE-ANESTHESIOLOGY**

1-44 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SR MED 922 – EXTRAMURAL ELECTIVE-FAMILY MEDICINE**

1-44 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SR MED 923 – EXTRAMURAL ELECTIVE-HUMAN ONCOLOGY**

1-26 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SR MED 924 – EXTRAMURAL ELECTIVE-MEDICINE**

1-44 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SR MED 925 – EXTRAMURAL ELECTIVE-NEUROLOGY**

1-44 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**SR MED 926 – EXTRAMURAL ELECTIVE-OBSTETRICS AND GYNECOLOGY**

1-44 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SR MED 927 – EXTRAMURAL ELECTIVE-OPHTHALMOLOGY**

1-44 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**SR MED 928 – EXTRAMURAL ELECTIVE-PATHOLOGY**

1-44 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**SR MED 929 – EXTRAMURAL ELECTIVE-PEDIATRICS**

1-44 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SR MED 931 – EXTRAMURAL ELECTIVE-PSYCHIATRY**

1-44 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**SR MED 932 – EXTRAMURAL ELECTIVE-RADIOLOGY**

1-44 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SR MED 933 – EXTRAMURAL ELECTIVE-REHABILITATION MEDICINE**

1-44 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SR MED 934 – EXTRAMURAL ELECTIVE-SURGERY**

1-44 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SR MED 935 – EXTRAMURAL ELECTIVE-PRIMARY CARE**

1-16 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SR MED 936 – EXTRAMURAL ELECTIVE-EMERGENCY MEDICINE**

2-12 credits.

Clinical elective for fourth year medical students.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SR MED 937 – EXTRAMURAL ELECTIVE CLERKSHIP IN INTERNATIONAL HEALTH**

1-8 credits.

One to eight week elective as a site outside the U.S. Students will engage in the provision of primary or specialty patient care in ambulatory and/or hospital settings. May include community public health, prevention, and health education learning activities. Sr Med 812, MEDICINE 812, PEDIAT 812, ObsGyn 812, cons inst

**Requisites:** 3rd 4th yr Med st.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SR MED 951 – TRAINING IN URBAN MEDICINE AND PUBLIC HEALTH (TRIUMPH) I: SEMINAR AND PROJECTS**

2 credits.

Introduces third year students to health disparities in Milwaukee and community and public health improvement projects. Students will devote four hours per week to projects under the guidance of community mentors and faculty.

**Requisites:** 3rd yr Medical student

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SR MED 953 – TRAINING IN URBAN MEDICINE AND PUBLIC HEALTH (TRIUMPH) II: MILWAUKEE**

2 credits.

Introduces third year medical students to the communities, neighborhoods, healthcare systems and public health initiatives in Milwaukee.

**Requisites:** 3rd yr Medical student

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SR MED 955 – TRAINING IN URBAN MEDICINE AND PUBLIC HEALTH (TRIUMPH) III: LEADERSHIP**

2 credits.

Provides fourth year medical students with advanced leadership skill building exercises to address community and public health challenges in Milwaukee.

**Requisites:** 4th yr Medical student and completion of SR MED 951 and SR MED 953

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SR MED 957 – TRAINING IN URBAN MEDICINE AND PUBLIC HEALTH (TRIUMPH) IV: ADVANCED SEMINAR**

2 credits.

A continuation of TRIUMPH I (SR MED 951) that will enable fourth year medical students to explore and address health disparities and to complete a community or public health improvement project with colleagues in Milwaukee.

**Requisites:** 4th yr Medical student and completion of SR MED 951, 953 and 955

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

## SLAVIC (SLAVIC LANGUAGES) (SLAVIC)

**SLAVIC 101 – FIRST SEMESTER RUSSIAN**

4 credits.

Five hours a week focusing on speaking, listening, reading and writing Russian, with an introduction to Russian culture. No previous knowledge of Russian expected.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SLAVIC 102 – SECOND SEMESTER RUSSIAN**

4 credits.

Continuation of SLAVIC 101. Open to Fr

**Requisites:** SLAVIC 101 or equiv.

**Course Designation:** Frgn Lang - 2nd semester language course Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**SLAVIC 111 – FIRST SEMESTER POLISH**

4 credits.

For students who have not studied Polish.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SLAVIC 112 – SECOND SEMESTER POLISH**

4 credits.

Open to Fr

**Requisites:** SLAVIC 111.

**Course Designation:** Frgn Lang - 2nd semester language course Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SLAVIC 115 – FIRST SEMESTER CZECH**

4 credits.

Designed to help students acquire proficiency in Czech through understanding, speaking, reading and writing. For students who have not previously studied Czech.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SLAVIC 116 – SECOND SEMESTER CZECH**

4 credits.

Designed to help students acquire proficiency in Czech through understanding, speaking, reading and writing. For students who have not previously studied Czech. Continuation of SLAVIC 115.

**Requisites:** SLAVIC 115 or equiv

**Course Designation:** Frgn Lang - 2nd semester language course Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**SLAVIC 117 – INTENSIVE SECOND YEAR RUSSIAN**

4 credits.

**Requisites:** None

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**SLAVIC 118 – INTENSIVE SECOND YEAR RUSSIAN**

4 credits.

**Requisites:** None

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**SLAVIC 141 – FIRST SEMESTER SERBO-CROATIAN**

3 credits.

Designed to develop the primary language skills in Serbo-Croatian (speaking, listening/understanding, reading, and writing). For students who have not previously studied Serbo-Croatian.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SLAVIC 142 – SECOND SEMESTER SERBO-CROATIAN**

3 credits.

Designed as a follow-up course to 141 as students continue to develop skills in Serbo-Croatian (speaking, listening/understanding, reading, and writing). Open to Fr

**Requisites:** SLAVIC 141 or equiv.

**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SLAVIC 181 – RUSSIAN HONORS TUTORIAL FOR SLAVIC 101**

1 credit.

Open to Fr

**Requisites:** Con reg for hon cr in SLAVIC 101.

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SLAVIC 182 – RUSSIAN HONORS TUTORIAL FOR SLAVIC 102**

1 credit.

Open to Fr

**Requisites:** Con reg for hon cr in SLAVIC 102.

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**SLAVIC 203 – THIRD SEMESTER RUSSIAN**

4 credits.

Five hours a week focusing on speaking, listening, reading and writing Russian, with continued study of Russian culture. Open to Fr

**Requisites:** SLAVIC 102 or equiv.

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SLAVIC 204 – FOURTH SEMESTER RUSSIAN**

4 credits.

Continuation of SLAVIC 203. Open to Fr

**Requisites:** SLAVIC 203 or equiv.

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SLAVIC 207 – THIRD SEMESTER POLISH**

4 credits.

Reading, conversation exercises, and grammar review. Open to Fr

**Requisites:** SLAVIC 112 or cons inst.

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SLAVIC 208 – FOURTH SEMESTER POLISH**

4 credits.

Reading, conversation exercises, and grammar review.

**Requisites:** Open to Fr

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**SLAVIC 217 – THIRD SEMESTER CZECH**

4 credits.

Continuation of SLAVIC 116. Focus on developing proficiency in understanding, speaking, reading, and writing Czech. Open to Fr

**Requisites:** SLAVIC 116 or cons inst.

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015



**SLAVIC 218 – FOURTH SEMESTER CZECH**

4 credits.

Continuation of SLAVIC 217. Designed to develop proficiency in understanding, speaking, reading, and writing Czech.

**Requisites:** SLAVIC 217 or cons inst Open to Fr

**Course Designation:** Frgn Lang - 4th semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**SLAVIC 242 – LITERATURES AND CULTURES OF EASTERN EUROPE**

3 credits.

Introduction to the literature, culture and art of Eastern Europe.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SLAVIC 245 – TOPICS IN SLAVIC LITERATURES**

3 credits.

Exploration of various topics - periods, genres, individual writers, themes, problems, etc. in Russian and Eastern European literature.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SLAVIC 251 – THIRD SEMESTER SERBO-CROATIAN**

3 credits.

Continuation of 142. Focus on developing proficiency in speaking, understanding, reading and writing Serbo-Croatian. Open to Fr

**Requisites:** SLAVIC 142 or cons inst.

**Course Designation:** Frgn Lang - 3rd semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SLAVIC 252 – FOURTH SEMESTER SERBO-CROATIAN**

3 credits.

Continuation of 251. Focus on developing proficiency in speaking, understanding, reading and writing Serbo-Croatian. Open to Fr

**Requisites:** SLAVIC 251 or cons inst.

**Course Designation:** Frgn Lang - 4th semester language course  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**SLAVIC/GEOG/HISTORY/POLI SCI 253 – RUSSIA: AN INTERDISCIPLINARY SURVEY**

4 credits.

Comprehensive interdisciplinary survey of Russian civilization from its beginnings through the present day.

**Requisites:** None

**Course Designation:** Breadth - Either Humanities or Social Science  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SLAVIC/GEOG/HISTORY/POLI SCI 254 – EASTERN EUROPE: AN INTERDISCIPLINARY SURVEY**

4 credits.

Comprehensive interdisciplinary survey of East European culture, society, politics, and literature from its beginnings to the present day.

**Requisites:** None

**Course Designation:** Breadth - Either Humanities or Social Science  
Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**SLAVIC 275 – THIRD YEAR RUSSIAN I**

3-4 credits.

**Requisites:** SLAVIC 118, 204, or equiv

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SLAVIC 276 – THIRD YEAR RUSSIAN II**

3-4 credits.

**Requisites:** SLAVIC 275 or equiv

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SLAVIC 277 – THIRD YEAR POLISH I**

3 credits.

Review of Polish grammar. Reading, oral practice, and composition. Open to Fr

**Requisites:** SLAVIC 208 or cons inst.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SLAVIC 278 – THIRD YEAR POLISH II**

3 credits.

Review of Polish grammar. Reading, oral practice and composition. May be taken out of sequence with SLAVIC 277. Open to Fr

**Requisites:** SLAVIC 208 or equiv, or cons inst.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SLAVIC 279 – INTENSIVE THIRD YEAR RUSSIAN**

8 credits.

Intensive course covering entire academic-year third-year Russian course in one semester. Improvement of Russian proficiency in all four skills, with an emphasis on reading and writing. Review of Russian grammar, development of complex syntax, vocabulary, and lengthier discourse.

**Requisites:** SLAVIC 204 or equivalent

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

**SLAVIC 283 – RUSSIAN HONORS TUTORIAL FOR SLAVIC 203**

1 credit.

Open to Fr

**Requisites:** Con reg for hon cr in SLAVIC 203.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**SLAVIC 284 – RUSSIAN HONORS TUTORIAL FOR SLAVIC 204**

1 credit.

Open to Fr

**Requisites:** Con reg for hon cr in SLAVIC 204.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**SLAVIC 285 – SLAVIC CULTURE IN CONTEXT: AN HONORS COURSE**

3 credits.

Topics will vary. This course is a writing and discussion intensive seminar that introduces students to one or more Slavic (Russian, Polish, Serbian, Czech, Croatian, Bosnian...) languages, literatures, and/or cultures within a global context. Enrollment priority given to freshmen/sophomore Honors students; other Honors students may enroll as space permits. No Slavic language required, although some knowledge of a non-English language is useful.

**Requisites:** For honors students only, or by consent of the instructor

**Course Designation:** Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SLAVIC 299 – DIRECTED STUDY**

1 credit.

**Requisites:** Consent of instructor

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

**SLAVIC 301 – INTRODUCTION TO INTENSIVE POLISH**

3 credits.

Intensive coverage of the structure of the Polish language. Rapid introduction to reading and speaking.

**Requisites:** Jr st, open to Fr So with cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SLAVIC 302 – ZARYS HISTORII LITERATURY POLSKIEJ**

3 credits.

An overview of the history of Polish literature.

**Requisites:** SLAVIC 277, SLAVIC 301 or cons inst

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**SLAVIC 304 – FOURTH SEMESTER INTENSIVE POLISH**

4 credits.

Advanced grammar and reading: reading selections from various sources in Polish literature, history, and culture. Grad st or cons inst

**Requisites:** SLAVIC 301.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**SLAVIC 305 – FIFTH SEMESTER INTENSIVE POLISH**

3 credits.

Vocabulary reinforced through literature, film and journalism. Readings and discussions related to issues of contemporary Polish society.

Continued work on grammar and vocabulary with written exercises and compositions. Grad st or cons inst

**Requisites:** SLAVIC 304.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SLAVIC 306 – SIXTH SEMESTER INTENSIVE POLISH**

3 credits.

Continuation of 305. Reading selections from twentieth century Polish literature. Focus on intensive writing. Grad st or cons inst

**Requisites:** SLAVIC 305.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**SLAVIC 307 – STUDY ABROAD IN POLAND**

1-4 credits.

A course carried with a UW-Madison study abroad program which has no equivalent on this campus.

**Requisites:** SLAVIC 208 or equiv**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**SLAVIC 308 – POLISH CULTURE AND AREA STUDIES ON STUDY ABROAD**

1-4 credits.

A course carried with a UW-Madison study abroad program which has no equivalent on this campus.

**Requisites:** SLAVIC 208 or equiv**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**SLAVIC 309 – RUSSIAN AREA STUDIES ON STUDY ABROAD**

1-4 credits.

A course carried with a UW-Madison study abroad program which has no equivalent on this campus.

**Requisites:** SLAVIC 204 or equiv**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**SLAVIC 310 – TOPICS IN RUSSIAN: STUDY ABROAD**

1-6 credits.

A course carried with a UW-Madison study abroad program which has no equivalent on this campus.

**Requisites:** Current reg in a UW-Madison study abroad prgm**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**SLAVIC 315 – RUSSIAN LANGUAGE AND CULTURE I**

2 credits.

Emphasizes speaking and listening skills, helping students to converse on different stylistic levels, with varying degrees of formality, according to the rules of Russian speech etiquette.

**Requisites:** SLAVIC 204 or equiv**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** No**Last Taught:** Fall 2017**SLAVIC 316 – RUSSIAN LANGUAGE AND CULTURE II**

2 credits.

Emphasizes speaking and listening skills, helping students to converse on different stylistic levels, with varying degrees of formality, according to the rules of Russian speech etiquette.

**Requisites:** SLAVIC 275 or equiv**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** No**Last Taught:** Spring 2017**SLAVIC 321 – FOURTH YEAR RUSSIAN I**

4 credits.

**Requisites:** SLAVIC 276 or consent of instructor**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SLAVIC 322 – FOURTH YEAR RUSSIAN II**

4 credits.

**Requisites:** SLAVIC 321 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**SLAVIC/RELIG ST 325 – EASTERN CHRISTIANITY/RUSSIAN ORTHODOXY IN A GLOBAL CONTEXT**

3 credits.

The course will focus on the history and doctrine of Eastern Christianity from its origins in the early Church through today, with special emphasis placed on the cultural manifestations of Orthodox doctrine, including liturgy, iconography, ritual practice.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2010

**SLAVIC 331 – FOURTH YEAR POLISH I**

3 credits.

Extensive reading, discussion, composition, and grammar review. Open to Fr

**Requisites:** SLAVIC 278 or cons inst.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SLAVIC 332 – FOURTH YEAR POLISH II**

3 credits.

Extensive reading, discussion, composition, and grammar review. Open to Fr

**Requisites:** SLAVIC 331 or cons inst.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SLAVIC 341 – FIRST SEMESTER INTENSIVE SERBO-CROATIAN**

3 credits.

Rapid introduction to Serbo-Croatian grammar, reading, and speaking.

**Requisites:** Grad st or cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SLAVIC 342 – UVOD U SRPSKU I HRVATSKU LITERATURU**

3 credits.

This course introduces students to the fundamentals of Serbian and Croatian literature. Students learn how to speak, write and use the basic concepts of literary analysis: character, plot, setting, style, etc.

**Requisites:** SLAVIC 341, Grad st or cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SLAVIC 350 – SPECIAL TOPICS IN RUSSIAN LANGUAGE, LITERATURE, AND CULTURE**

3 credits.

**Requisites:** SLAVIC 275 and 276 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

**SLAVIC 351 – FIRST SEMESTER INTENSIVE CZECH**

3 credits.

Rapid introduction to Czech grammar, reading, and speaking.

**Requisites:** Grad st or cons inst

**Course Designation:** Frgn Lang - 1st semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SLAVIC 352 – SECOND SEMESTER INTENSIVE CZECH**

3 credits.

Rapid introduction to Czech grammar, reading, and speaking. Grad st or cons inst

**Requisites:** SLAVIC 351.

**Course Designation:** Frgn Lang - 2nd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**SLAVIC/CURRIC/THEATRE 362 – DRAMA FOR TEACHING AND LEARNING**

3 credits.

This is a methods course useful for all involved in teaching and learning, including foreign languages. Introduction to philosophy, methodology, and practice of the use of drama and performance techniques in any educational or recreational settings. Focus on creativity and embodied and contextual learning, based on current neurological, psychological, and sociological research. A practical class which includes demonstration and practice with children.

**Requisites:** So st

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SLAVIC 405 – WOMEN IN RUSSIAN LITERATURE**

3-4 credits.

**Requisites:** SLAVIC 276 or equiv

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SLAVIC 420 – CHEKHOV**

3-4 credits.

**Requisites:** SLAVIC 276 or equiv

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**SLAVIC 421 – GOGOL**

3-4 credits.

**Requisites:** SLAVIC 276 or equiv

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**SLAVIC 422 – DOSTOEVSKY**

3-4 credits.

**Requisites:** SLAVIC 276 or equiv**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SLAVIC 424 – TOLSTOY**

3-4 credits.

**Requisites:** SLAVIC 276 or equiv**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**SLAVIC 433 – HISTORY OF RUSSIAN CULTURE**

3 credits.

First in a two-semester course sequence, this course focuses on those topics in Russian cultural history that are most often discussed by Russians and serve as the basis for contemporary political and media discourse.

**Requisites:** SLAVIC 322 or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SLAVIC 434 – CONTEMPORARY RUSSIAN CULTURE**

3 credits.

Second in a two-semester course sequence, this course focuses on those topics in modern Russian cultural history that are most often discussed by Russians and serve as the basis for contemporary political and media discourse.

**Requisites:** SLAVIC 322 or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**SLAVIC 439 – RUSSIA TODAY IN LITERATURE AND FILM**

4 credits.

Students will learn about changing Russian society, as reflected in Russian literature and film from 1985 through the present day.

**Requisites:** SLAVIC 276 or equiv**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2009**SLAVIC 440 – SOVIET LITERATURE**

3-4 credits.

**Requisites:** SLAVIC 276 or equiv**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**SLAVIC 441 – THIRD SEMESTER INTENSIVE SERBO-CROATION**

3 credits.

Advanced reading and discussion, primarily twentieth century Serbian and Croatian literatures.

**Requisites:** SLAVIC 342, Grad st or cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** No**Last Taught:** Fall 2017**SLAVIC 442 – FOURTH SEMESTER INTENSIVE SERBO-CROATION**

3 credits.

Continuation of 403.

**Requisites:** SLAVIC 441 or cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S**Repeatable for Credit:** No**Last Taught:** Spring 2016**SLAVIC/FOLKLORE 444 – SLAVIC AND EAST EUROPEAN FOLKLORE**

3 credits.

Oral traditional literature of Eastern Europe: ritual and lyric poetry, epic, and folktale.

**Requisites:** Junior standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SLAVIC 449 – ISTORIJA SRPSKE I HRVATSKE LITERATURE**

3 credits.

Major literary movements of Serbian and Croatian literatures from the medieval period until the formation of the Yugoslav state in 1919. Readings in Serbo-Croatian.

**Requisites:** SLAVIC 342 or equiv**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2013

**SLAVIC 451 – THIRD SEMESTER INTENSIVE CZECH**

3 credits.

Advanced grammar and reading: reading selections from various sources in Czech literature, history, and culture.

**Requisites:** SLAVIC 352 or cons inst

**Course Designation:** Frgn Lang - 3rd semester language course

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**SLAVIC 452 – FOURTH SEMESTER INTENSIVE CZECH**

3 credits.

Continuation of 451, reading selections from twentieth century Czech literature.

**Requisites:** SLAVIC 451 or cons inst

**Course Designation:** Frgn Lang - 4th semester language course

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**SLAVIC 454 – MODERNA SRPSKA I HRVATSKA LITERATURA**

3 credits.

Continuation of SLAVIC 449, from 1919 until the present. Study of major twentieth-century writers. Readings in Serbo-Croatian.

**Requisites:** SLAVIC 342 or equiv

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SLAVIC 470 – HISTORIA LITERATURY POLSKIEJ DO ROKU 1863**

3 credits.

Intensive study of major writers such as Kochanowski, Sep Szarzyński, Krasicki, Mickiewicz, and Slowacki. Readings in Polish.

**Requisites:** SLAVIC 302

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SLAVIC 472 – HISTORIA LITERATURY POLSKIEJ PO ROKU 1863**

3 credits.

A comprehensive survey of Polish literature and its historical background from 1863 to the present. Readings in Polish.

**Requisites:** SLAVIC 470

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**SLAVIC/THEATRE 532 – HISTORY OF RUSSIAN THEATRE**

3 credits.

The history of Russian theatre and related arts (including opera and ballet) with emphasis on performance history.

**Requisites:** Junior standing

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**SLAVIC 560 – CAPSTONE SEMINAR IN RUSSIAN LITERATURE AND CULTURE**

3 credits.

Conducted entirely in Russian. Designed for advanced students of Russian to study an aspect of Russian literature or culture in depth. Topics vary.

**Requisites:** SLAVIC 322 and one 400-level course in Russian literature or culture; cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SLAVIC 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Summer 2012

**SLAVIC 682 – SENIOR HONORS THESIS**

3 credits.

Continuation of 681.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**SLAVIC 699 – DIRECTED STUDY**

1-6 credits.

**Requisites:** Jr or Sr st cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017



**SLAVIC 701 – SURVEY OF OLD RUSSIAN LITERATURE**

2 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**SLAVIC 702 – EIGHTEENTH-CENTURY RUSSIAN LITERATURE**

2 credits.

**Requisites:** SLAVIC 321-322**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**SLAVIC 703 – FOUNDATIONS IN RUSSIAN ROMANTICISM**

3 credits.

This course introduces students to Russian Romanticism and provides them with a solid foundation in both primary texts and secondary scholarship in the field.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**SLAVIC 705 – SPECIAL TOPICS IN RUSSIAN LANGUAGE/LINGUISTICS**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2017**SLAVIC 707 – FOUNDATIONS IN RUSSIAN REALISM (~1840-1890S)**

3 credits.

This course provides students with a deep knowledge of the masterworks of the 19th century and the broader literary, historical, political, intellectual and cultural contexts in which they arose and which they shaped.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**SLAVIC 708 – FOUNDATION IN RUSSIAN MODERNISM (~1890S-1930S)**

3 credits.

This course introduces students to various trends in Russian Modernist literature from the 1890s through the 1930s.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**SLAVIC 709 – FOUNDATION IN SOVIET, EMIGRE, AND POST-SOVIET LITERATURE (~1930-PRESENT)**

3 credits.

This course will cover, at the graduate level, the Soviet, Emigre, and Post-Soviet periods of Russian literature. In addition, it will engage the movements and conceptual issues shaping and influencing the production of Russian/Soviet literary texts from 1917 until the present day: e.g., realism, socialist realism, exile (internal and external), dissidence, postmodernism.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**SLAVIC 755 – TOPICS IN SLAVIC LITERATURE**

1-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SLAVIC 799 – INDEPENDENT STUDY**

1-6 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SLAVIC 800 – PROSEMINAR-SLAVIC LITERATURE AND CULTURE**

1 credit.

The purpose of this course is three-fold: an introduction to the faculty in our department, an introduction to the Slavic field in general, and an introduction to research methods in Slavic.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**SLAVIC 801 – SLAVIC CRITICAL THEORY AND PRACTICE**

3 credits.

This course introduces students to the original works of major trends representing literary theory in the Slavic world and wider: formalism, materialism, structuralism, semiotics, deconstruction, psychoanalysis, gender-based theory and other relevant theories that have influenced the way we treat literature as a cultural and aesthetic practice.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015

**SLAVIC 802 – THE STRUCTURE OF RUSSIAN**

2 credits.

This course provides advanced students with a theoretical and practical introduction to the linguistic structure of Contemporary Standard Russian.

**Requisites:** SLAVIC 275, 276**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**SLAVIC 803 – INTRODUCTION TO OLD CHURCH SLAVONIC AND THE HISTORY OF RUSSIAN LITERARY LANGUAGE**

2 credits.

This course introduces students with advanced competence in modern Russian to Old Church Slavonic (OCS) and its impact on the formation of Russian literary language.

**Requisites:** SLAVIC 275, 276**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**SLAVIC 804 – METHODS OF TEACHING SLAVIC LANGUAGES**

2 credits.

Students will investigate the history of foreign language instruction, various models of adult foreign language acquisition, methods for teaching Russian, the creation of testing instruments, issues relevant to course design, and criteria for textbook selection.

**Requisites:** Graduate standing SLAVIC 321**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**SLAVIC 820 – COLLEGE TEACHING OF RUSSIAN**

1 credit.

This course is designed and required for current Slavic Department Russian-language Teaching Assistants and provides important professional development in course design, lesson planning, and assessment. Course participants work cooperatively to develop course activities and assessment instruments, and will learn how to identify and solve problems in the classroom.

**Requisites:** Teaching assistant in Russian**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**SLAVIC 891 – APPRENTICESHIP IN TEACHING**

1 credit.

Professional development in the pedagogy of literature, culture, and advanced language teaching.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**SLAVIC 892 – APPRENTICESHIP IN WRITING**

1 credit.

Professional development on advanced writing and publication in the field for graduate students.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**SLAVIC 900 – SEMINAR: SLAVIC LITERATURE AND CULTURE**

1-3 credits.

Advanced level graduate seminar on topics related to Slavic literature and culture.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SLAVIC 991 – INDIVIDUAL RESEARCH-SLAVIC LITERATURE**

1-12 credits.

**Requisites:** For Grads only**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SOCIAL WORK (SOC WORK)****SOC WORK 100 – SO YOU WANT TO CHANGE THE WORLD?**

3 credits.

Students talk about wanting to make a difference - to change the world in some way. This course, especially designed for freshmen, helps students examine their ideas and values related to making a difference, teaches them to think critically about the meaning and methods of changing the world, and challenges them to integrate thoughtful evidence with their values and beliefs about doing good in the world. With a focus on the profession of social work and other helping professions, the course will consider a variety of social problems, and investigate and critique various approaches to creating change to improve social problems.

**Requisites:** None**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**SOC WORK/NURSING/S&A PHM 105 – HEALTH CARE SYSTEMS: INTERDISCIPLINARY APPROACH**

2 credits.

Introduction to health care systems. Factors affecting health and the value placed on health, the delivery of health care in different settings, the roles of various health workers, and the sociological and economic aspects of health care.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC WORK 205 – INTRODUCTION TO THE FIELD OF SOCIAL WORK**

4 credits.

A basic survey. Historical development, formation of social welfare policies, and the role of the social work professional.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC WORK 206 – INTRODUCTION TO SOCIAL POLICY**

4 credits.

Provides an awareness of problems and concepts of the policy process in the U.S. Explores the political, economic, and institutional frameworks which structure public social welfare choices. Might include income maintenance, child welfare, mental health, corrections.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC WORK 275 – CONTEMPORARY ISSUES IN SOCIAL WELFARE**

1-3 credits.

Topics will vary, reflecting new issues and trends in the social services. See Timetable for topics.

**Requisites:** Open to Fr**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**SOC WORK 299 – DIRECTED STUDY**

1-3 credits.

Program of study devised by a student in collaboration with a faculty member. Graded on a lettered basis; requires consent of instructor.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SOC WORK 400 – FIELD PRACTICE AND INTEGRATIVE SEMINAR I**

2-6 credits.

An approved generalist field seminar and social work community agency placement. Seminar and placement require a minimum of 16 hours/week. The first course of the two-semester field sequence.

**Requisites:** Senior standing and declared in Bachelor of Social Work program or declared in Master of Social Work program**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Workplace - Workplace Experience Course

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC WORK 401 – FIELD PRACTICE AND INTEGRATIVE SEMINAR II**

2-6 credits.

An approved generalist field seminar and social work agency placement. Seminar and placement require a minimum of 16 hours per week. The second course of the two-semester field sequence.

**Requisites:** SOC WORK 400 and declared in Bachelor or Master of Social Work program**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Workplace - Workplace Experience Course

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC WORK 420 – POVERTY AND SOCIAL WELFARE**

3 credits.

Nature and dimensions of poverty in the U.S. Individual and social consequences of poverty. Historic and contemporary approaches. Poverty and social welfare policy and programs.

**Requisites:** Jr st**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**SOC WORK/SOC 422 – SOCIAL ISSUES IN AGING**

3 credits.

This course is designed to give students an understanding of the origins, nature and scope and dynamics of the social problems of older adults and their families in the U.S. and to acquaint students with programs and services available to older adults.

**Requisites:** An Intro Soc course (SOC/C&E SOC 140, 181, 210, or 211) or Soc Work 205**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016

**SOC WORK 440 – PRACTICE I: FOUNDATIONS OF GENERALIST PRACTICE**

1-2 credits.

Provides a conceptual base for generalist social work practice at all intervention levels. Helps students learn social work purposes, values, ethics, processes, roles, methods, and integrate social work theory and practice.

**Requisites:** Sr or Grad st, soc work major

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**SOC WORK 441 – GENERALIST PRACTICE WITH INDIVIDUALS, FAMILIES AND GROUPS**

1-3 credits.

Develops generalist social work knowledge and skills for working with and on behalf of individuals, families, and groups. Lectures and labs focus on development of basic social work direct practice skills.

**Requisites:** Senior standing and declared in Bachelor of Social Work program or declared in Master of Social Work program

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SOC WORK 442 – GENERALIST PRACTICE WITH COMMUNITIES AND ORGANIZATIONS**

1-2 credits.

Exposes students to the theory and practice of planned change in communities and organizations and helps them incorporate a generalist model into practice at these levels of intervention.

**Requisites:** Senior standing and declared in Bachelor of Social Work program or declared in Master of Social Work program

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SOC WORK 453 – ALCOHOL AND OTHER DRUG ABUSE**

2-4 credits.

Presentation of social, legal, political, and ethical considerations surrounding the use and abuse of alcohol and psychotropic drugs in the U.S.

**Requisites:** Jr st

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC WORK 454 – SMALL GROUPS IN SOCIAL WORK PRACTICE**

3 credits.

Exploration and application of theory to the formation and development of small groups deliberately used by social workers to effect specified change in interpersonal relationships.

**Requisites:** Soc work/welfare major

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOC WORK 457 – HUMAN BEHAVIOR AND THE ENVIRONMENT**

3 credits.

Physiological, psychological, and social changes throughout the life cycle. Major crisis and developmental tasks at each point in terms of their implications for social work practice.

**Requisites:** Soc work/welfare major

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOC WORK 462 – CHILD WELFARE**

3 credits.

Supportive, supplementary, and substitute child welfare services employed in dealing with the problems of dependent, neglected, delinquent children. Scope, method, problems, trends of the services; child welfare in other countries; sociology of the child welfare worker.

**Requisites:** Soc work/welfare major

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC WORK/AFROAMER/HDFS 521 – AFRICAN AMERICAN FAMILIES**

3 credits.

Historical background; variations in contemporary family patterns; courtship and marriage, reproduction, and socialization stresses; "culture of poverty" theories; sources of stability and change.

**Requisites:** Junior standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2011

**SOC WORK 523 – FAMILY VIOLENCE**

3 credits.

An overview of the risk factors and trauma effects of the major forms of family violence. Models of prevention and intervention will be described. Attitudes about family violence will be explored. Basic skills for detecting abuse and making referrals will be taught.

**Requisites:** Jr or Sr st; soc work/welfare majors**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC WORK 575 – COMMUNITY DEVELOPMENT IN SOCIAL WELFARE**

3 credits.

Analysis of theory and practice of community development in selected cultural settings in the U.S. and other countries; role of community development in social welfare systems; problems and techniques of developing local citizen interest and leadership; community development in relation to other social work methods and community institutions and processes.

**Requisites:** Soc work/welfare major**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**SOC WORK 578 – HOMELESSNESS: A SERVICE LEARNING COURSE**

4 credits.

Introduction to the complex issues surrounding homelessness in America including epidemiology, demographics, history and public beliefs and attitudes. It explores structural conditions and personal attributes posited as causes of contemporary homelessness. Varying social policies and service needs of homeless persons are discussed.

**Requisites:** Jr or Sr st; soc welfare major**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**SOC WORK 579 – SPECIAL TOPICS IN SOCIAL WORK**

1 credit.

Intensive study of selected topics in the field of social work.

**Requisites:** Jr st; cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**SOC WORK 605 – THE FIELD OF SOCIAL WORK**

2 credits.

Nature, purpose, function, and organizational content of the profession. Historical development; a consideration of the development of the social welfare institutions, formation of social welfare policies and their impact on practice, and the role of the social work professional.

**Requisites:** Grad st**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC WORK 606 – SOCIAL POLICY**

2 credits.

Analysis of policy issues as applied to such fields as poverty, discrimination, crime, physical and mental health on both national and state levels.

**Requisites:** Grad st**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC WORK 612 – PSYCHOPATHOLOGY IN GENERALIST SOCIAL WORK PRACTICE**

2 credits.

This foundation course prepares social work students to recognize major mental health concerns across the lifespan. The course includes an introduction to the Diagnostic and Statistical Manual of Mental disorders (DSM) as the organizing framework for reviewing major mental disorders and critique of the current "medical model" approach to mental health in the United States. The course considers mental health issues from a generalist perspective including the role of the social environment, culture and stigma in mental health services, access and policy.

**Requisites:** Senior standing and declared in Bachelor of Social Work program**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**SOC WORK 624 – SOCIAL WORK WITH THE SMALL GROUP**

2-3 credits.

Exploration of the small group as the interventive unit; major models and techniques; principles guiding the selection of the small group approach to intervention based on research knowledge of problems, processes, and outcomes.

**Requisites:** Declared in Social Work BSW or MSW program**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017



**SOC WORK 626 – SOCIAL WORK WITH THE COMMUNITY**

2-3 credits.

Community relationships in public and voluntary social services; principles of community organization and social welfare administration.

**Requisites:** Sr or Grad st, soc work major Soc Work 440

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**SOC WORK 639 – GAY, LESBIAN, BISEXUAL, AND TRANSGENDER (GLBT) INDIVIDUALS AND SOCIAL WELFARE**

2-3 credits.

The purpose of this course is to introduce contemporary topics related to the social welfare of gay,lesbian, bisexual and transgender (GLBT) individuals. Issues addressed are related to development,health disparities, family, research, history, and ethics. The course is designed to enhance student understanding of issues related to GLBT individuals in America. A life cycle perspective will be presented to highlight the unique issues of LGBT people at various stages of human development. Overlapping sexual orientation, in addition to these generational considerations, are the many other aspects of diversity present in the LGBT community, including race,ethnicity, class, gender, physical and mental abilities, religion, and national origin. Students will be exposed to empirical literature on LGBT issues that will inform their understanding of past, present, and future challenges facing the LGBT community in light of its many complexities.

**Requisites:** Junior Standing; BSW/social welfare majors or consent of instructor

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**SOC WORK 640 – SOCIAL WORK WITH ETHNIC AND RACIAL GROUPS**

2-3 credits.

This course prepares students for generalist social work practice in a multicultural society. It discusses Afro-Americans, Hispanics, American Indians, and Asian Americans, and implications are drawn for social policy.

**Requisites:** Soc work/welfare major

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC WORK 642 – SOCIAL WORK AND ADOLESCENTS**

2-3 credits.

Drawing on multiple theoretical perspectives and a critical review of the literature, students explore practice implications and interventions regarding problems of adolescents and at-risk youth with a focus on environmental influences that affect normal development.

**Requisites:** Soc work/welfare major

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SOC WORK 643 – SOCIAL WORK AND DELINQUENCY**

2-3 credits.

This course is designed to enhance students' knowledge base regarding social work services to youth who are troubled and delinquent. The course examines etiological factors that contribute to mental health issues experienced by this population. These factors along with a basic conceptual understanding of child and adolescent psychopathology will be applied to the social work process of assessment, treatment, and prevention for this population.

**Requisites:** Open to Social Welfare Majors, BSW and MSW students and others with instructor consent

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOC WORK 644 – ISSUES IN DEVELOPMENTAL DISABILITIES**

2-3 credits.

Definition, incidence, and prevention of intellectual and other developmental disabilities. Examines the life-cycle needs of this population, as well as social welfare issues, social services available, and the social worker's role.

**Requisites:** Junior Standing, social work/welfare major

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC WORK 646 – CHILD ABUSE AND NEGLECT**

2-3 credits.

The course is concerned with physical, emotional and sexual abuse of children, child neglect and exploitation.

**Requisites:** Soc work/welfare major

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**SOC WORK 648 – END-OF-LIFE: IMPLICATIONS AND CHALLENGES FOR PRACTICE**

1-3 credits.

Focuses on social work practice with children, adolescents, adults and elders who have terminal illness, as well as their families. Others with faculty consent.

**Requisites:** Open to Social Welfare Majors, BSW and MSW students.

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SOC WORK 650 – METHODS OF SOCIAL WORK RESEARCH**

2-3 credits.

Social research and problems of project design and programming. Distinctive characteristics of investigations directed to planning, administrative, and scientific objectives.

**Requisites:** Jr st, stat requirement filled, soc welfare major, BSW or MSW stdts

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**SOC WORK 656 – FAMILY PRACTICE IN FOSTER AND KINSHIP CARE**

2-3 credits.

Social welfare issues from national and local perspective, research, and foster care practice.

**Requisites:** Jr st and Social Work major, open to special students

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOC WORK/CHICLA 657 – UNDERSTANDING LATINO FAMILIES AND COMMUNITIES**

3 credits.

Examines U.S. Latino families and communities, including social and economic conditions, cultural values, and issues of identity, race, gender, discrimination, acculturation and language. A service-learning course, students gain knowledge of and direct experience with social work issues in Latino communities.

**Requisites:** Jr st

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**SOC WORK/AMER IND 658 – AMERICAN INDIAN AFFAIRS**

2-3 credits.

Contemporary concerns and conditions of American Indians examined in historical, cultural and legal perspective.

**Requisites:** Jr st

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**SOC WORK 659 – INTERNATIONAL ASPECTS OF SOCIAL WORK**

2-3 credits.

**Requisites:** Jr st and Social Work 205 or cons inst

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**SOC WORK 661 – TOPICS IN CONTEMPORARY SOCIAL WELFARE**

2-3 credits.

Continuation of 660.

**Requisites:** Jr st, soc work/welfare major

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**SOC WORK 662 – TOPICS IN CONTEMPORARY SOCIAL WELFARE**

2-3 credits.

**Requisites:** Jr st, soc work/welfare major

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014

**SOC WORK 663 – TOPICS IN CONTEMPORARY SOCIAL WELFARE**

2-3 credits.

**Requisites:** Jr st, soc work/welfare major

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SOC WORK 664 – TOPICS IN CONTEMPORARY SOCIAL WELFARE**  
2-3 credits.

**Requisites:** Jr st, soc work/welfare major  
**Course Designation:** Breadth - Social Science  
Level - Advanced  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Spring 2014

**SOC WORK 665 – TOPICS IN CONTEMPORARY SOCIAL WELFARE**  
2-3 credits.

**Requisites:** Jr st, soc work/welfare major  
**Course Designation:** Breadth - Social Science  
Level - Advanced  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Spring 2017

**SOC WORK 672 – TOPICS IN CONTEMPORARY SOCIAL WELFARE**  
2-3 credits.

**Requisites:** Prerequisites vary  
**Course Designation:** Breadth - Social Science  
Level - Advanced  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Fall 2017

**SOC WORK 673 – TOPICS IN CONTEMPORARY SOCIAL WELFARE**  
2-3 credits.

**Requisites:** Prerequisites vary  
**Course Designation:** Breadth - Social Science  
Level - Advanced  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Summer 2017

**SOC WORK 674 – TOPICS IN CONTEMPORARY SOCIAL WELFARE**  
2-3 credits.

**Requisites:** Prerequisites vary  
**Course Designation:** Breadth - Social Science  
Level - Advanced  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Summer 2016

**SOC WORK 675 – TOPICS IN CONTEMPORARY SOCIAL WELFARE**  
2-3 credits.

**Requisites:** Prerequisites vary  
**Course Designation:** Breadth - Social Science  
Level - Advanced  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Summer 2015

**SOC WORK 676 – TOPICS IN CONTEMPORARY SOCIAL WELFARE**  
2-3 credits.

**Requisites:** Prerequisites vary  
**Course Designation:** Breadth - Social Science  
Level - Advanced  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Summer 2016

**SOC WORK 679 – TOPICS IN CONTEMPORARY SOCIAL WELFARE**  
2-3 credits.

**Requisites:** Prerequisites vary  
**Course Designation:** Breadth - Social Science  
Level - Advanced  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** Yes, unlimited number of completions  
**Last Taught:** Fall 2013

**SOC WORK 681 – SENIOR HONORS THESIS**  
3 credits.

**Requisites:** Senior standing and consent of instructor  
**Course Designation:** Level - Advanced  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Honors - Honors Only Courses (H)  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2009

**SOC WORK 682 – SENIOR HONORS THESIS**  
3 credits.

**Requisites:** Senior standing and consent of instructor Soc Wk 681  
**Course Designation:** Level - Advanced  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Honors - Honors Only Courses (H)  
**Repeatable for Credit:** No  
**Last Taught:** Spring 2010

**SOC WORK 691 – SENIOR THESIS**  
2 credits.

**Requisites:** Senior standing and consent of instructor  
**Course Designation:** Level - Advanced  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2003

**SOC WORK 692 – SENIOR THESIS**  
2 credits.

**Requisites:** Sr st cons inst Soc Wk 691  
**Course Designation:** Level - Advanced  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
**Repeatable for Credit:** No  
**Last Taught:** Spring 2004

**SOC WORK 699 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Jr or Sr st cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SOC WORK 700 – PART-TIME MSW PROGRAM EXEMPTION TERM**

0 credits.

Course for students in the Part-Time MSW Program to maintain UW-Madison status when they have partial exemptions and no other courses available.

**Requisites:** Admission to Part-Time MSW Program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SOC WORK 711 – HUMAN BEHAVIOR AND THE ENVIRONMENT**

2 credits.

The literature on human behavior and the environment is reviewed from a bio-psycho-social perspective. Special attention is given to understanding individual and family behavior and development as a function of reciprocal interactions with groups, communities, organizations, and society.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC WORK 712 – PSYCHOPATHOLOGY FOR SOCIAL WORK PRACTICE IN MENTAL HEALTH**

3 credits.

This practice course focuses on a biopsychosocial understanding of mental wellbeing and mental illness from a social work and social environment perspective. It gives special attention to the social work view in relation to the person-in-environment and other classification systems available to the practitioner. The course emphasizes an appreciation of the critical influence of culture, class, race and ethnicity, religion, and social values of the individual, family, group, and social institutions in the assessment of client strengths and vulnerabilities. The course critically reviews current classification systems and major theories regarding the nature of mental disorders, their diagnoses and etiologies, and the treatment approaches available to help people in their recovery.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC WORK 715 – FAMILY SYSTEMS IN SOCIAL WORK**

1-2 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2009**SOC WORK/URB R PL 721 – METHODS OF PLANNING ANALYSIS**

3 credits.

Research methods and statistics used in analyzing planning problems: conceptualization, design, and implementation of planning research; statistical methods for analyzing data including review of inferential statistics, analysis of variance, correlation, and multiple regression; use of computer; review of sources of planning data.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC WORK 741 – INTERVENTIONS WITH CHILDREN, YOUTH, AND FAMILIES**

2 credits.

Addresses multi-level interventions with children, youth, and families across multiple service systems, with an emphasis on practice innovations.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC WORK 742 – ASSESSING AND TREATING CHILDREN AND ADOLESCENTS**

2 credits.

An advanced practice course on social work treatment methods with children and adolescents from a cognitive behavioral perspective. Assessment, treatment, and generalization of change strategies; problem-solving; resource development; intervention planning and other practice issues are explored.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

**SOC WORK/NURSING/PEDIAT/PHM PRAC 746 – INTERDISCIPLINARY CARE OF CHILDREN WITH SPECIAL HEALTH CARE NEEDS**

3 credits.

Interdisciplinary team care of children with special health care needs across the trajectory of illness presented within the context of family, culture, social determinants of health, community, and healthcare policy. Students introduced to interdisciplinary, collaborative, family-centered team care.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC WORK 799 – INDEPENDENT STUDY**

1-6 credits.

Independent study for MSW graduate students.

**Requisites:** Graduate Standing-MSW**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SOC WORK 800 – FIELD PRACTICE AND INTEGRATIVE SEMINAR III**

2-6 credits.

An approved advanced generalist field seminar and placement linked to areas of focus. Seminar and placement require a minimum of 20 hours per week. The first course of the two-semester advanced field sequence.

**Requisites:** Declared in Master of Social Work program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC WORK 801 – FIELD PRACTICE AND INTEGRATIVE SEMINAR IV**

2-6 credits.

An approved advanced generalist seminar and placement linked to areas of focus. Seminar and placement require a minimum of 20 hours/week. The second course of the two semester field sequence.

**Requisites:** SOC WORK 800 and declared in the Master of Social Work program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC WORK 821 – SOCIAL WORK PRACTICE IN AGING AND MENTAL HEALTH**

2 credits.

Prepares front line social workers to address mental health needs of older adults and their family members. Examines common mental health conditions, assessment, planning, evidence-based individual, family and group interventions, resources, cultural competence, ethical issues, and contexts for practice.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC WORK/LAW 822 – FAMILY LAW: MARRIAGE AND DIVORCE**

2-4 credits.

Marriage and less formal spousal relationships, husband-wife relationships in on-going marriage; divorce and its economic and custody consequences; post-divorce relationships.

**Requisites:** Cons inst required for Social Work**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**SOC WORK/LAW 823 – FAMILY LAW: PARENT AND CHILD**

3-4 credits.

The relationship of parent and child; the rights of unmarried mothers and fathers and their children; parental rights to custody vis a vis third parties; parents' rights to make decisions affecting children; neglect; termination of parental rights; the foster care system and adoption.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**SOC WORK 825 – GRIEF, DEATH, LOSS AND LIFE**

2 credits.

This course introduces social work students to the nature and centrality of the experience of loss and subsequent grief in their personal lives, in the lives of their clients, and in their role as professional helpers.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**SOC WORK 835 – ADVANCED SOC WORK PRACTICE IN MENTAL HEALTH**

1-2 credits.

Focuses on the core practice theories, conceptual frameworks, and intervention skills necessary for social work practice in mental health.

**Requisites:** Graduate standing in social work**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**SOC WORK 836 – MENTAL HEALTH POLICIES AND SERVICES**

2-3 credits.

Prepares students for leadership roles in mental health programs, agencies and organizations. Examines mental health policies and services that influence care and treatment of persons with mental illness and shape mental health care systems, programs and services.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC WORK 840 – ADVANCED MACRO PRACTICE**

2 credits.

Explores multiple approaches social workers use to influence groups, organizations, communities and systems. Concepts, theories and models of macro level practice and advanced practice skills for addressing complex practice and organizational situations are examined.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC WORK 841 – ADMINISTRATION IN SOCIAL WORK**

2-3 credits.

Principally focused on developing management skills through case material and structured activities. Students go through the various sequential activities involved in conceptualizing and getting funding for a human service program, and in developing and managing a nonprofit organization.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2012**SOC WORK 842 – CONSULTATION AND SUPERVISION IN SOCIAL WORK**

2-3 credits.

Learning patterns, principles and methods of supervision and consultation.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2010**SOC WORK 854 – CRISES INTERVENTION IN SOCIAL WORK**

2-3 credits.

Meaning of crisis to client systems and social work practitioners; principles guiding rational decision to intervene at the point of "critical incident".

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**SOC WORK 860 – RECENT DEVELOPMENTS IN SOCIAL WORK**

1-3 credits.

Topics Change. Topics under this course number apply to the Foundation curricular area.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**SOC WORK 861 – RECENT DEVELOPMENTS IN SOCIAL WORK**

1-3 credits.

Topics change. Topics under this course number relate to the Advanced curricular area.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SOC WORK 862 – RECENT DEVELOPMENTS IN SOCIAL WORK**

2-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**SOC WORK 863 – RECENT DEVELOPMENTS IN SOCIAL WORK**

2-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014**SOC WORK 868 – RECENT DEVELOPMENTS IN SOCIAL WORK**

2 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2013**SOC WORK 869 – RECENT DEVELOPMENTS IN SOCIAL WORK**

2-3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**SOC WORK 870 – ASSESSING AND TREATING ADULTS**

1-2 credits.

An advanced practice course that teaches evidence-based interventions used by clinical social workers in the treatment of serious mental illnesses.

**Requisites:** SOC WORK 800 or concurrent enrollment

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SOC WORK 873 – SOCIAL WORK PRACTICE IN HEALTH CARE**

2 credits.

Develops advanced practice knowledge and skills for social workers practicing in health and health care settings.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC WORK 874 – ADVANCED PRACTICE IN HEALTH, AGING, AND DISABILITY**

2 credits.

Develops advanced practice knowledge and skills related to practice issues common to social workers practicing in the areas of aging, health, and/or disability.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**SOC WORK 875 – HEALTH, AGING, AND DISABILITY POLICY AND SERVICES**

2 credits.

Provides knowledge about the contemporary organization of health care, as well as policies and services for older adults and people with disabilities.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC WORK/ED PSYCH/HDFS/NURSING 880 – PREVENTION SCIENCE**

3 credits.

This course provides a theoretical, empirical and practical foundation for prevention science as it relates to the prevention of human social problems. Research and evaluation methods, program design strategies, best practices and policy as they relate to the field of prevention are also examined. Intended for 2nd year graduate students.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC WORK/ED PSYCH/HDFS/NURSING 881 – CAPSTONE SEMINAR IN PREVENTION SCIENCE**

1 credit.

This course provides an opportunity for students to meet with prevention professionals and scholars from across campus and the community to explore current and emerging issues of prevention research and professional practice. Students must complete HDFS/ED PSYCH/NURSING/SOC WORK 880 before taking this course.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOC WORK/PUB AFFR 887 – NONPROFIT LEADERSHIP**

3 credits.

Nonprofit leadership focuses on developing management skills for the nonprofit area through readings, case materials and structured activities. Students examine the context, issues and skills associated with leadership and management in nonprofit organizations and apply them to challenges and opportunities that confront administration of nonprofits.

**Requisites:** Social Work or La Follette Graduate student or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOC WORK 890 – THESIS-RESEARCH**

1-6 credits.

Research and thesis for MSW students who wish to submit a master's thesis or conduct independent research.

**Requisites:** Graduate Standing-MSW Student

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SOC WORK 920 – CHILD, YOUTH, AND FAMILY POLICIES AND SERVICES**

2 credits.

Considers legislation, policies, and institutional structures that affect children, youth, and families across multiple service systems.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC WORK 921 – CHILD WELFARE**

2-3 credits.

Implications of knowledge from the social and behavioral sciences and public welfare policy on child welfare problems and services.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**SOC WORK 923 – FAMILY VIOLENCE**

2 credits.

An overview of the risk factors and trauma effects of the major forms of family violence. Models of prevention and intervention will be described. Attitudes about family violence will be explored. Basic skills for detecting abuse and making referrals will be taught.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SOC WORK 924 – FAMILY PROBLEMS AND SOCIAL WORK**

2-3 credits.

Review of family theory and its relevance for social work practice; an analysis of family subsystems in the U.S.; current research on the American family.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOC WORK 929 – SOCIAL WORK AND SUBSTANCE ABUSE**

2-3 credits.

History, current understanding, assessment, and treatment of problematic substance abuse. Provided knowledge and social work skills to conceptualize, screen, assess, and treat substance abuse and co-occurring disorders (i.e., mental illness and substance use disorders). A biopsychosocial perspective is emphasized.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOC WORK/ED PSYCH 945 – EVALUATION RESEARCH**

3 credits.

A comprehensive introduction to practice of program evaluation research in social welfare and human development. Developments in descriptive, experimental, quasi-experimental, theory-driven, and naturalistic evaluations detailed. Topics include assessment, evaluation design, monitoring, outcome evaluation, selection bias, program theory, meta-analysis and utilization.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**SOC WORK 946 – FACULTY RESEARCH SEMINAR**

1 credit.

This course is designed to: further the socialization of students to the Ph.D. program, its aims and objectives; provide opportunities for faculty to discuss research interests and doctoral education.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SOC WORK 947 – STUDENT RESEARCH SEMINAR**

1 credit.

Course designed to: provide a forum for students to discuss experiences, success strategies and research interests; provide opportunities for advanced doctoral students to receive feedback on their research and later, on colloquia they prepare for their job searches.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SOC WORK 948 – PROSEMINAR**

1-3 credits.

Doctoral seminars.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC WORK 949 – PROSEMINAR**

1-3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**SOC WORK 950 – PHD PROSEMINAR**

1-3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**SOC WORK 951 – PHD PROSEMINAR**

1-3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SOC WORK 952 – PHD PROSEMINAR**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**SOC WORK 954 – SOCIAL WORK EDUCATION**

2-3 credits.

Past, present, and future developments of professional education.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2009**SOC WORK 990 – THESIS-RESEARCH**

2-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SOC WORK 999 – INDEPENDENT READING**

1-9 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SOCIAL AND ADMINISTRATIVE  
PHARMACY (S&A PHM)****S&A PHM/NURSING/SOC WORK 105 – HEALTH CARE SYSTEMS:  
INTERDISCIPLINARY APPROACH**

2 credits.

Introduction to health care systems. Factors affecting health and the value placed on health, the delivery of health care in different settings, the roles of various health workers, and the sociological and economic aspects of health care.

**Requisites:** None**Course Designation:** Breadth - Social Science  
Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**S&A PHM/HIST SCI 401 – HISTORY OF PHARMACY**

2 credits.

Pharmaceutical field, from antiquity to modern medical care; professional; structuring in principal countries of the West.

**Requisites:** Junior standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**S&A PHM 411 – PHARMACY IN THE HEALTH CARE SYSTEM**

3 credits.

Introduces students to: (1) the public health care system and pharmacists' roles in the public health care system, (2) the health care system and how pharmacy fits within the health care system, (3) the patient's perspective of health, illness, medication taking and patient-pharmacist interaction, (4) principles of educational assessment and patient consultation, (5) skills and strategies to overcome barriers to individualized patient consultation.

**Requisites:** Declared in Doctor of Pharmacy program**Repeatable for Credit:** No**Last Taught:** Fall 2017**S&A PHM 414 – SOCIAL AND BEHAVIORAL ASPECTS OF PHARMACY  
PRACTICE**

3 credits.

The goals of this course are to introduce students to psychosocial and behavioral aspects of pharmacy practice and patient care, including (1) the pharmacist's role in patient care and public health; (2) patient perspective and factors related to health and medication use; (3) patient-pharmacist interaction and communication; and (4) principles of personnel management in pharmacy practice.

**Requisites:** S&A PHM 411**Repeatable for Credit:** No**Last Taught:** Spring 2017**S&A PHM 490 – SELECTED TOPICS IN SOCIAL AND ADMINISTRATIVE  
PHARMACY**

1-4 credits.

Specialized subject matter of current interest to undergraduate and professional students.

**Requisites:** Declared in Doctor of Pharmacy program**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**S&A PHM 511 – PHARMACY LAW AND REGULATION**

2-3 credits.

Federal and Wisconsin laws related to drug manufacture, drug distribution, drug use, and pharmacy practice.

**Requisites:** DPM-2 st; SA Phm 411, 414, 510**Repeatable for Credit:** No**Last Taught:** Spring 2017

**S&A PHM/CLASSICS/HIST SCI/HISTORY/MED HIST 561 – GREEK AND ROMAN MEDICINE AND PHARMACY**

3 credits.

Greek and Roman medicine and drug lore from the Pre-Socratics to Oribasius (c. 600 B.C. - A.D. 350), including the backgrounds of ancient Egyptian and Mesopotamian medicine.

**Requisites:** Junior standing

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**S&A PHM/HIST SCI/HISTORY/MED HIST/MEDIEVAL 562 – BYZANTINE MEDICINE AND PHARMACY**

3 credits.

Byzantine and Islamic medicine and drug lore from Oribasius to the beginnings of the Italian Renaissance (c. 350 - c. 1400 A.D.).

**Requisites:** Junior standing

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**S&A PHM 618 – PROFESSIONAL DECISION-MAKING IN PHARMACY PRACTICE**

2-3 credits.

Application of ethical theory to problems in pharmacy practice. Emphasis on contemporary patient care situations and evolving issues related to drug technology, drug use, and patient-pharmacist relations.

**Requisites:** DPH-3 st, SA Phm 511, Phm Prac 556; 2 cr required, 3rd cr avail as a professional elective

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**S&A PHM 622 – PROSEMINAR IN SOCIAL AND ADMINISTRATIVE PHARMACY**

1-3 credits.

Problems in pharmaceutical sociology, psychology, management, finance and economics, including: drug prescribing/use, distribution, and payment; patient care and pharmaceutical service delivery; pharmaceutical industry; and pharmaceutical policy and regulation. May be repeated.

**Requisites:** Junior standing

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**S&A PHM 652 – PHARMACIST COMMUNICATION: EDUCATIONAL AND BEHAVIORAL INTERVENTIONS**

2 credits.

Intermediate principles of pharmacist communication with patients and other care givers; weekly communications laboratory provides opportunity to refine skills in listening, interviewing, counseling, and use of various educational and behavioral strategies to improve drug use.

**Requisites:** S&A PHM 411 and Declared in the Doctor of Pharmacy Program with third year standing

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**S&A PHM 699 – ADVANCED INDEPENDENT STUDY**

3 credits.

Directed study projects as arranged with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**S&A PHM 711 – RESEARCH METHODS FOR PHARMACEUTICAL OUTCOMES AND POLICY RESEARCH**

3 credits.

Development of skills in the methods, techniques, and problems encountered in conducting evaluations of pharmaceutical services, programs, and policies.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**S&A PHM 713 – PHARMACEUTICAL MARKETING AND POLICY**

3 credits.

Marketing and policy aspects of prescription drugs from the perspective of the pharmaceutical industry; overview of the industry, the marketing mix, policies and regulations related to pharmaceuticals.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**S&A PHM 714 – SOCIAL ORGANIZATION OF PHARMACY**

3 credits.

Examination of theories, methodologies, and research related to social organization of the profession and practice of pharmacy, the pharmaceutical industry, pharmaceutical regulation, and national/international pharmacy sectors.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**S&A PHM 715 – SOCIAL BEHAVIORAL THEORIES IN PHARMACY, DRUG USE, AND HEALTH BEHAVIOR**

3 credits.

Critical review and application of social behavioral theories, methodologies, and research to current problems in pharmacy, pharmacist communication and interaction with consumers and other providers, use of prescription and nonprescription drugs, and self-care.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**S&A PHM 716 – ADVANCED HOSPITAL PHARMACY ADMINISTRATION**

2 credits.

Various components necessary to become an accomplished administrator of a pharmacy department in a hospital or organized health care setting.

**Requisites:** Declared in MS Pharmacy program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**S&A PHM 911 – RESEARCH SEMINAR IN SOCIAL & ADMINISTRATIVE PHARMACY**

1 credit.

Exposes students to research related to SAS topics, discuss strategies for writing research theses and articles, discuss various methodological approaches to answering research questions, and improve oral and written communication skills. Seminars may involve presenting completed and/or planned research, leading discussions among seminar participants about research topics, and discussing written assignments.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**S&A PHM 990 – RESEARCH**

1-12 credits.

Independent research and writing for graduate students under the supervision of a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**S&A PHM 999 – ADVANCED INDEPENDENT STUDY**

1-12 credits.

Directed study projects for graduate students as arranged with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SOCIOLOGY (SOC)****SOC 120 – MARRIAGE AND FAMILY**

3-4 credits.

Sociology of the family. Demographic, social-psychological, economic, and historical aspects. Union formation and dissolution. Childbearing and childrearing. Social stratification and the family. Intergenerational support. Social consequences of family behaviors.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC 125 – AMERICAN SOCIETY: HOW IT REALLY WORKS**

3-4 credits.

Explanation of US performance in realizing the values of freedom, fairness, and democracy. Topics include markets, capitalism, democracy, capitalist democracy; class, race, and gender inequalities; militarism and US international role; and US electoral politics, media, and social mobilization.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC 130 – SOCIAL PROBLEMS**

3 credits.

Conditions and processes in personal and social maladjustment; nature of social disorganization and social problems; their relation to social change and basic ideological, technological, and institutional structures and processes.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**SOC/LEGAL ST 131 – CRIMINAL JUSTICE IN AMERICA**

3-4 credits.

Day-to-day functioning of the elements of the criminal justice system in the U.S. Nature of crime in the U.S., ideas about causes and solutions. Emphasis on the sociology of the components of criminal justice system—organization and roles of police, lawyers, court and correctional personnel. Stdts may receive cr for only one of the following: SOC/LEGAL ST 131 or 431

**Requisites:** Open to Fr So only, until end of Fr reg period.

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC 134 – PROBLEMS OF AMERICAN RACIAL AND ETHNIC MINORITIES**  
3-4 credits.

The nature of inter-group relations; emphasis on various forms of racism, discrimination, and white privilege; historical background and characteristics of American Indians, African Americans, Hispanic Americans, Asian Americans and other racial and ethnic minorities; a consideration of economic, housing, political, legal, educational, familial, and health challenges faced by minority groups in US society.

**Requisites:** None

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC 138 – THE SOCIOLOGY OF GENDER**

3-4 credits.

A sociological examination of the status and roles of women and men in society, including the experiences of marriage, parenthood, employment and occupational attainment, socialization into sex roles and cultural reinforcement of these. Attention will be given to both existing patterns and change in those patterns.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC/C&E SOC 140 – INTRODUCTION TO COMMUNITY AND ENVIRONMENTAL SOCIOLOGY**

3 credits.

Sociological examination of the linkages between the social and biophysical dimensions of the environment. Key topics include community organizing, local food systems, energy transitions, environmental justice, resource dependence, and sustainable development. Gateway to advanced courses in sociology.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC/PSYCH 160 – HUMAN SEXUALITY: SOCIAL AND PSYCHOLOGICAL ISSUES**

3-4 credits.

Biological, psychological and sociological aspects of sexual relationships and behavior. The course presents theoretical and empirical materials on sexuality throughout the life-course, including childhood, adolescence, adulthood, and later life. Attention is given to gender, religion, education and the law as they relate to sexual expression in society.

**Requisites:** Not open to students who have taken Soc/Psych 350

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**SOC 170 – POPULATION PROBLEMS**

3-4 credits.

Social, economic, and political problems affected by birth and death rates, population size and distribution, voluntary and forced migration. World ecology, limits to growth, economic development, international conflict, environmental quality, metropolitan expansion, segregation by age, race, and wealth. Policies affecting reproduction, nuptiality, morbidity, mortality, migration.

**Requisites:** None

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC 181 – HONORS INTRODUCTORY SEMINAR-THE SOCIOLOGICAL ENTERPRISE**

3-4 credits.

An introduction to the paradigms, methods and substance of sociology. Gateway to advanced courses in sociology. Satisfied Comm A requirement. Not taken Soc/Community Environmental SOC/C&E SOC 210 or Soc/Community Environmental SOC/C&E SOC 211

**Requisites:** Honors status.

**Course Designation:** Gen Ed - Communication Part B

Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**SOC 198 – DIRECTED STUDY**

1-3 credits.

Program of study devised by a student in collaboration with a faculty member. Graded on a Cr/N basis. Open only to freshmen and sophomores. Graded on Cr/N basis; requires written cons inst

**Requisites:** Open to Fr So only.

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2014



**SOC 199 – DIRECTED STUDY**

1-3 credits.

Program of study devised by a student in collaboration with a faculty member. Graded on a lettered basis. Open only to Fr and So. Graded on a lettered basis; requires written cons inst

**Requisites:** Open to Fr So only.**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**SOC/GEN&WS 200 – INTRODUCTION TO LESBIAN, GAY, BISEXUAL, TRANSGENDER AND QUEER+ STUDIES**

3-4 credits.

A multidisciplinary introduction to lesbian, gay, bisexual, transgender, and queer (LGBTQ) studies, including theories of identity formation, different societal interaction with LGBTQ communities, LGBTQ cultures in history, and contemporary legal and political issues. Course materials explore the intersections between LGBTQ identities and other socially marginalized identities, including (but not limited to) those based on race, ethnicity, religion and disability.

**Requisites:** None**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC 205 – INTERCULTURAL DIALOGUES**

3 credits.

Intercultural Dialogues (ICD) promotes diversity on campus by bringing students of different backgrounds together for discussion, projects, and gatherings outside of class.

**Requisites:** Consent of Instructor**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC 206 – LEADERSHIP IN INTERCULTURAL DIALOGUES**

3 credits.

Leadership in Intercultural Dialogues is for student facilitators and apprentices of SOC 205, Intercultural Dialogues (ICD), which promotes diversity on campus by bringing students of different backgrounds together for discussion, projects, and gatherings outside of class. Students must complete SOC 205 to be eligible for this course.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC/C&E SOC 210 – SURVEY OF SOCIOLOGY**

3-4 credits.

Introduction to the field of American sociology, its subfields and specialized areas of research, theoretical traditions and research methods. Gateway to advanced courses in sociology.

**Requisites:** Satisfied Communications A requirement; not open to students who have taken SOC 181 or CE SOC/SOC/C&E SOC 211**Course Designation:** Gen Ed - Communication Part B

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC/C&E SOC 211 – THE SOCIOLOGICAL ENTERPRISE**

3 credits.

Basic principles and definitions of sociology. Readings and discussion of the perspectives of sociology, the individual and society, groups and social process, stratification, organizations and power, demography, and social change. Gateway to advanced courses in sociology.

**Requisites:** Not open to students who have taken SOC 181 or CE SOC/SOC/C&E SOC 210**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC/C&E SOC/GEN&WS 215 – GENDER AND WORK IN RURAL AMERICA**

3 credits.

Sociological dimensions of men's and women's work in nonmetropolitan areas of the United States. Examines gender divisions of "work" in its fullest sense: paid work in formal and informal economies, self-employment, and nonmarket work such as housework.

**Requisites:** Open to Fr**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2014**SOC/ASIAN AM 220 – ETHNIC MOVEMENTS IN THE UNITED STATES**

3-4 credits.

Sociological analysis of historical and recent ethnic/racial conflict and movements in the U.S., including the relations between European Americans, African Americans, Mexican Americans, Native Americans, and Asian Americans, with additional material on other groups and relations.

**Requisites:** Satisfied Communications A requirement**Course Designation:** Gen Ed - Communication Part B

Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017



**SOC/C&E SOC 222 – FOOD, CULTURE, AND SOCIETY**

3 credits.

Social and cultural dimensions of the production, preparation, and consumption of food. Uses historical and cross-cultural analytical frameworks. Treats a wide variety of topics including pre-capitalist food systems, hunger, vegetarianism, sustainable agriculture, food and gender, genetic engineering.

**Requisites:** Open to Fr**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2013**SOC 225 – CONTEMPORARY CHINESE SOCIETY**

3 credits.

Basic social science "literacy" of contemporary China: introduction on the main institutions of traditional Chinese society; and the social changes in various aspects of contemporary Chinese society since 1949, including the economy, family, education, social stratification, politics, legal reform, and the urban/rural divide.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**SOC 236 – BASCOM COURSE**

3 credits.

A low-enrollment course developing skills in critical reading, logical thinking, use of evidence, and use of library resources. Emphasis on writing in the conventions of specific fields.

**Requisites:** Satisfied Communications A requirement**Course Designation:** Gen Ed - Communication Part B

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**SOC/GEOG/HISTORY/LCA/POLI SCI 244 – INTRODUCTION TO SOUTHEAST ASIA: VIETNAM TO THE PHILIPPINES**

4 credits.

Southeast Asian history, religion, folklore and literatures, educational systems, and politics from the early classical states to contemporary social, literary, and political developments.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC/C&E SOC 245 – TECHNOLOGY AND SOCIETY**

3 credits.

Students are introduced to a wide range of work on technology, the social forces shaping its development, and social impacts of its adoption. Students are encouraged to examine their assumptions about technology and its relationship to society.

**Requisites:** Open to Fr**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**SOC/C&E SOC/F&W ECOL 248 – ENVIRONMENT, NATURAL RESOURCES, AND SOCIETY**

3 credits.

Introduces the concerns and principles of sociology through examination of human interaction with the natural environment. Places environmental issues such as resource depletion, population growth, food production, environmental regulation, and sustainability in national and global perspectives.

**Requisites:** Open to Fr**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC 250 – ORGANIZATIONS AND SOCIETY**

3-4 credits.

Role of organizations, including industrial, governmental, and educational ones, in American society. Topics: impact of organizations on members and clients, the internal dynamics of organizations, and the interchange between organizations and their environment, including the society as a whole.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2010**SOC/GEOG/HISTORY/LCA/POLI SCI 252 – THE CIVILIZATIONS OF INDIA-MODERN PERIOD**

4 credits.

Contemporary India society as a joint product of the classical heritage and world-wide movements toward nationalism; social and economic development.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**SOC/JEWISH 258 – THE JEWS, STATES, AND CITIZENSHIP: A SOCIOLOGICAL PERSPECTIVE**

3 credits.

Introduction to historical sociology of citizenship through a comparative investigation of Jewish emancipation in nineteenth-century Europe, including social origins of emancipation, its consequences for the social organization and collective identity of Jews, and Jewish responses to emancipation.

**Requisites:** Open to Fr**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2009**SOC/AFROAMER/ANTHRO/C&E SOC/GEOG/HISTORY/LACIS/POLI SCI/SPANISH 260 – LATIN AMERICA: AN INTRODUCTION**

3-4 credits.

Latin American culture and society from an interdisciplinary perspective; historical developments from pre-Columbian times to the present; political movements; economic problems; social change; ecology in tropical Latin America; legal systems; literature and the arts; cultural contrasts involving the US and Latin America; land reform; labor movements; capitalism, socialism, imperialism; mass media.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**SOC/AFRICAN/AFROAMER/ANTHRO/GEOG/HISTORY/POLI SCI 277 – AFRICA: AN INTRODUCTORY SURVEY**

4 credits.

African society and culture, polity and economy in multidisciplinary perspectives from prehistory and ancient kingdoms through the colonial period to contemporary developments, including modern nationalism, economic development and changing social structure.

**Requisites:** None**Course Designation:** Breadth - Either Humanities or Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC 320 – RESEARCH PRACTICUM IN SOCIOLOGY**

1-3 credits.

Practical experience in techniques of social research through work on a research project for the semester.

**Requisites:** CE SOC/SOC/C&E SOC 357**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SOC/A A E/C&E SOC 340 – ISSUES IN FOOD SYSTEMS**

3-4 credits.

With primary emphasis on the U.S., the course covers social, economic and biological dimensions of food systems. Using classroom and community experience, the course combines academic approaches with practitioner knowledge. A community project is required.

**Requisites:** SOC/C&E SOC 140, CE SOC/SOC 181, 210, or 211**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC 351 – INTRODUCTION TO SURVEY METHODS FOR SOCIAL RESEARCH**

3 credits.

Provides an introduction to the principles that underlie the uses of surveys for social research and experience in some of the basic techniques of survey research. Specific topics include the basic concepts of sampling and survey measurement. Readings, lectures, and labs present different material, and all are required. Labs and short reports are an integral part of the course. They illustrate how survey researchers apply the methods presented in the class and provide students the opportunity to practice applying the concepts and methods they learn every week. The techniques used in this class are relevant for many kinds of data collection and standardized measurement, such as experiments in social psychology or political polls, although neither of these specialized methodologies is covered in this course. Provides a substantial experience with practical research skills that are relevant in many academic and private sector contexts.

**Requisites:** Sophomore standing and (CE SOC/SOC/C&E SOC 357 or concurrent enrollment in CE SOC/SOC/C&E SOC 360)**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC/C&E SOC 357 – METHODS OF SOCIOLOGICAL INQUIRY**

3-4 credits.

Scientific methods in the study of society; procedures for testing sociological theory: problem definition, hypothesis construction, collection and evaluation of data. Practical experience conducting small research projects. Should be taken as early as possible by students considering a major in Sociology. Prior statistics not required. Gateway to advanced courses in sociology.

**Requisites:** Not open to students who have taken CE SOC/SOC 358**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**SOC/C&E SOC 360 – STATISTICS FOR SOCIOLOGISTS I**

4 credits.

Presentation of sociological data; descriptive statistics; probability theory and statistical inference; estimation and tests of hypotheses; regression and correlation and the analysis of contingency tables; lectures and lab. Gateway to advanced courses in sociology. It is recommended that students take SOC/C&E SOC 357 prior to taking this course. Not open to students who have taken Soc 359

**Requisites:** Satisfied Quantitative Reasoning (QR) A requirement.

**Course Designation:** Gen Ed - Quantitative Reasoning Part B  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC/C&E SOC 361 – STATISTICS FOR SOCIOLOGISTS II**

3 credits.

Applied linear regression modeling for social scientists. Bivariate and multiple regression, dummy variables, interactions, nonlinear relationships, indirect effects and omitted variable bias, outliers, heteroskedasticity, and multicollinearity; associated diagnostics and corrections. Use of Stata and/or SAS for dataset creation and analysis. Lectures and lab. Sophomore standing, and Soc/Community Environmental SOC/C&E SOC 360 or equivalent

**Requisites:** Sophomore standing.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Honors - Accelerated Honors (!)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC 362 – STATISTICS FOR SOCIOLOGISTS III**

3 credits.

Generalized linear models with selected applications to social science data. Topics: Review of multiple regression; properties of estimators; general linear restrictions; instrumental variables; two-stage least squares; panel data; fixed and random effects; logit, probit, and related models. Lectures and lab.

**Requisites:** Junior standing, and Soc/Community Environmental SOC/C&E SOC 361 or equivalent or consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Honors - Accelerated Honors (!)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOC/C&E SOC 365 – DATA MANAGEMENT FOR SOCIOLOGICAL RESEARCH**

3-4 credits.

Understanding the structure of different types of social scientific data, techniques for data evaluation, cleaning, documentation and visual display, merging data from multiple sources, restructuring data for analysis.

**Requisites:** SOC/C&E SOC/SOC 360, PSYCH 210, PSYCH 280, GEN BUS 303, STAT 301, ECON 310, STAT/MATH/STAT 310, GEOG 360, or POLI SCI 551

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOC 375 – INTRODUCTION TO MATHEMATICAL SOCIOLOGY**

3 credits.

Explores mathematical models of social structure, focusing especially on social network analysis and related methods. Makes extensive use of matrix algebra and mathematical software. Matrix algebra recommended.

**Requisites:** Junior standing and CE SOC/SOC/C&E SOC 360

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**SOC 376 – MATHEMATICAL MODELS OF SOCIAL SYSTEMS**

3 credits.

Explores mathematical models of social process employing dynamical systems, Markov chains, and simulation analysis. Examples will address a wide range of sociological topics including cultural evolution, demography, social influence, social-network formation, religion, residential segregation, and social movements.

**Requisites:** Junior standing, and SOC 375, MATH 320, MATH 340, MATH 341, or MATH 375, or consent of instructor

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**SOC/C&E SOC/POP HLTH 380 – CONTEMPORARY POPULATION PROBLEMS FOR HONORS**

3 credits.

This course is designed to identify, examine the nature and evaluate the evidence regarding key population problems affecting modern societies in the developed and developing world. The course emphasizes the development of demographic models as a tool to frame, define and investigate these problems. Examples of problems studied include: relations between population growth and environment, population growth and socioeconomic development, population and emergence of new diseases.

**Requisites:** Honors, and Soc/Community Environmental SOC/C&E SOC 360 or equivalent or consent of instructor

**Course Designation:** Breadth - Either Humanities or Social Science Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**SOC/LEGAL ST 415 – THE LEGAL PROFESSION**

3-4 credits.

History, structure, and functioning of legal professions in the United States and in other countries around the world.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**SOC 421 – PROCESSES OF DEVIANT BEHAVIOR**

3-4 credits.

Factors and conditions that underlie disagreement about fundamental values which inform views and conceptualizations of deviance; their relation to personal and social maladjustment; deviant behavior across different social contexts.

**Requisites:** Sophomore standing, CE SOC/SOC/C&E SOC 357, and CE SOC/SOC/C&E SOC 360

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**SOC/SOC WORK 422 – SOCIAL ISSUES IN AGING**

3 credits.

This course is designed to give students an understanding of the origins, nature and scope and dynamics of the social problems of older adults and their families in the U.S. and to acquaint students with programs and services available to older adults.

**Requisites:** An Intro Soc course (SOC/C&E SOC 140, 181, 210, or 211) or Soc Work 205

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SOC 441 – CRIMINOLOGY**

3-4 credits.

Theoretical explanations of criminal behavior. Measurement of crime and evaluation of criminological research. Current issues in criminology and crime-related public policy.

**Requisites:** Sophomore standing and SOC/C&E SOC 140, SOC 181, SOC/C&E SOC 210, SOC/C&E SOC 211, or SOC/LEGAL ST/SOC 131

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC 446 – JUVENILE DELINQUENCY**

3-4 credits.

Concepts of childhood and delinquency. Measurement of delinquent behavior. Application of competing theories to relationships within the family, school, and peer group. Evaluation of programs for treatment, prevention, and control. The rise of the juvenile system.

**Requisites:** Sophomore standing and SOC/C&E SOC 140, SOC 181, SOC/C&E SOC 210, SOC/C&E SOC 211, or SOC/LEGAL ST/SOC 131

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SOC/PSYCH 453 – HUMAN SEXUALITY**

4 credits.

Provides an interdisciplinary introduction to biological, psychological, and sociological aspects of human sexuality.

**Requisites:** Sophomore standing; not open to students who have taken PSYCH/SOC/PSYCH 160

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**SOC/PSYCH 456 – INTRODUCTORY SOCIAL PSYCHOLOGY**

3-4 credits.

The systematic study of the individual in a social context, including social interaction, motivation, attitudes, conformity, communication, leadership, personal relationships, and behavior in small groups.

**Requisites:** Sophomore standing and SOC/C&E SOC/SOC 140, 210, 211, SOC 181, PSYCH 201, 202, 281 or ANTHRO 100

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC 460 — STUDY ABROAD IN DEMOGRAPHY AND ECOLOGY**

1-6 credits.

This course provides a sociology area equivalency for demography and ecology courses taken on Madison study abroad programs that do not equate exactly to existing sociology courses.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**SOC 461 — STUDY ABROAD IN ADDITIONAL METHODS AND STATISTICS**

1-6 credits.

This course provides a sociology area equivalency for additional methods and statistics courses taken on Madison study abroad programs that do not equate exactly to existing sociology courses.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2009

**SOC 462 — STUDY ABROAD IN ADDITIONAL THEORY**

1-6 credits.

This course provides a sociology area equivalency for additional theory courses taken on Madison study abroad programs that do not equate exactly to existing sociology courses.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**SOC 463 — STUDY ABROAD IN DEVIANT BEHAVIOR**

1-6 credits.

This course provides a sociology area equivalency for deviant behavior courses taken on Madison study abroad programs that do not equate to existing sociology courses.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**SOC 464 — STUDY ABROAD IN SOCIAL PSYCHOLOGY**

1-6 credits.

This course provides a sociology area equivalency for social psychology courses taken on Madison study abroad programs that do not equate exactly to existing sociology courses.

**Requisites:** Enrollment in a UW-Madison study abroad program

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SOC 465 — STUDY ABROAD IN SOCIAL ORGANIZATION**

1-6 credits.

This course provides a sociology area equivalency for social organization courses taken on Madison study abroad programs that do not equate exactly to existing sociology courses.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SOC/CHICLA 470 — SOCIODEMOGRAPHIC ANALYSIS OF MEXICAN MIGRATION**

3 credits.

Introduces students to social and demographic analysis and explanations of the historical and present day causes and consequences of migration of the largest immigrant group to the United States in the 20th century.

**Requisites:** Chic/Std 201, 215, 220, 234, 210, or 205

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SOC/C&E SOC 475 — CLASSICAL SOCIOLOGICAL THEORY**

3 credits.

Classical theory; Marx, Durkheim, Weber, and other important classical theorists and schools of thought. Gateway to advanced courses in sociology.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC 476 — CONTEMPORARY SOCIOLOGICAL THEORY**

3 credits.

Norm and norm emergence, Preference formation, Ideology, Bounded Rationality, Rational Choice, Prospect Theory, Framing processes, Models of Collective Behaviors, Symbolic Interactionism, Communicative Action, Game Theory, Processes of Social Influence.

**Requisites:** SOC/C&E SOC 475

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC/GEN&WS 477 – FEMINISM AND SOCIOLOGICAL THEORY**

3 credits.

This course reviews the ways that feminist critiques have reshaped social theory since 1960. It examines the ways that feminist theorists have reconceptualized classical sociological problems and how this has influenced the ways research is conducted.

**Requisites:** SOC/C&E SOC 475 or any Gender Women's Studies course carrying "S" or "Z" or "Y" breadth category.

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**SOC 496 – TOPICS IN SOCIOLOGY**

1-3 credits.

Intensive study of selected topics in sociology.

**Requisites:** Junior standing

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SOC 497 – STUDY ABROAD IN SOCIOLOGY**

1-6 credits.

A course carried with a UW-Madison Study Abroad Program that has no equivalent on this campus.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SOC 531 – SOCIOLOGY OF MEDICINE**

3 credits.

Cultural, social, and social psychological factors in disease processes, distribution of disease, social definitions of illness, and organization of the health professions and health facilities.

**Requisites:** Jr st and intro course in soc or cons inst

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**SOC/C&E SOC 532 – HEALTH CARE ISSUES FOR INDIVIDUALS, FAMILIES AND SOCIETY**

3 credits.

Issues related to health and health care delivery in our society. Topics include social, cultural and ethical influences on consumer definitions of health and use of medical care, and on the health care system's responses.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**SOC/C&E SOC 533 – PUBLIC HEALTH IN RURAL & URBAN COMMUNITIES**

3 credits.

Sociological approaches to community, rural, and public health. Examines epidemiological evidence for and policy solutions to health issues that impact vulnerable populations in diverse geographic and social settings. Topics include mental health, environmental and occupational health, preventive care, substance abuse.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**SOC 535 – TALK AND SOCIAL INTERACTION**

3 credits.

Focus on the systematic observation and analysis of face-to-face interaction. Sociological approaches to naturally occurring interaction—i.e., human talk and behavior that has been observed, audiorecorded, or videorecorded—will be explored. The approaches include ethnomethodology, conversational analysis, and Goffmanian sociology.

**Requisites:** Two Social Studies courses, or consent of instructor

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**SOC/C&E SOC/ENVIR ST 540 – SOCIOLOGY OF INTERNATIONAL DEVELOPMENT, ENVIRONMENT, AND SUSTAINABILITY**

3 credits.

Sociological analysis of relationships among economic growth, environmental sustainability and social justice in the developing world. Considers frameworks for understanding poverty, hunger, educational and technological inequality, and the impact of globalization on prospects for socially and ecologically sustainable development.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC/C&E SOC 541 – ENVIRONMENTAL STEWARDSHIP AND SOCIAL JUSTICE**

3 credits.

Application of sociological theory and analysis to environmental issues. Course examines the ways in which environmental stewardship and conflict are embedded within broader cultural, social, and political contexts.

**Requisites:** Any of these: Intro Soc course (SOC/C&E SOC 140, 181, 210, or 211), Soc/CE Soc/Forest and Wildlife Ecol 248, Envir St 112, Envir St 113, Envir St/GEOG/ENVIR ST 139, Envir St/GEOG/ENVIR ST 337, Envir St/GEOG/ENVIR ST 339, GEOG 101

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**SOC 543 – COLLECTIVE BEHAVIOR**

3 credits.

Emergence of various forms of collective behavior from social interactions, collective action problem, game theory, prospect theory, social networks, network effects, information cascade, increasing returns, social influence, epidemics, social movements, mass media.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**SOC/C&E SOC 573 – COMMUNITY ORGANIZATION AND CHANGE**

3 credits.

Examines theories of community change and different models of community organizing.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOC 575 – SOCIOLOGICAL PERSPECTIVES ON THE LIFE COURSE AND AGING**

3 credits.

Age as a basis of societal differentiation in modern and premodern societies; social psychological, demographic, sociobiological, socioeconomic, and sociohistorical views of age-graded events and behaviors; examination of the life course and aging as sociological variables.

**Requisites:** CE SOC/SOC/C&E SOC 357

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SOC/AMER IND/C&E SOC 578 – POVERTY AND PLACE**

3 credits.

The allocation of economic and social rewards in the United States; emphasis on persistently poor regions and communities; analysis of selected minority groups and their poverty statuses; poverty programs and their consequences for structural and cultural changes.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC/C&E SOC 610 – KNOWLEDGE AND SOCIETY**

3 credits.

Examines topics related to what has been called the "knowledge society." Explores various aspects of science and technology as they shape and are shaped by post-industrial societies.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**SOC/GEN&WS 611 – GENDER, SCIENCE AND TECHNOLOGY**

3 credits.

Examination of issues and theories in gender and science. Topics include historical and contemporary studies of technoscientific and medical constructions of sex/gender differences; feminist studies of science, technology, and medicine; proposals of new epistemologies.

**Requisites:** Junior standing, and one of: SOC/C&E SOC 475, Gender Women's Studies 441, Gender Women's Studies 445, Soc/Gender Women's Studies 477, or consent of instructor

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC/LCA/RELIG ST 614 – SOCIAL STRUCTURES OF MUSLIM SOCIETIES**

3 credits.

Analysis of legal, religious, familial, educational, and political institutions in Muslim societies, with special attention to the interaction between these institutions and contemporary social and economic processes.

**Requisites:** Intro Soc course (SOC/C&E SOC 140, 181, 210, or 211) or consent of instructor

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**SOC/C&E SOC/URB R PL 617 – COMMUNITY DEVELOPMENT**

3 credits.

Social, cultural and personality factors influencing community development, with reference to developing countries as well as contemporary rural communities; consideration of theoretical and operational issues.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SOC 620 – COMPARATIVE RACIAL INEQUALITY**

3 credits.

The construction of racial orders is treated in a comparative and historical framework, involving both Western and non-Western societies.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**SOC 621 – CLASS, STATE AND IDEOLOGY: AN INTRODUCTION TO MARXIST SOCIAL SCIENCE**

3 credits.

Core theoretical problems and themes of contemporary Marxist social science, focusing on the theory of history, classes, the state and ideology.

**Requisites:** Graduate standing, or Junior standing and consent of instructor

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOC/C&E SOC 622 – ADVANCED TOPICS IN CRITICAL SOCIOLOGY**

3 credits.

Topics include: Marxism and feminism; race and class; alternative theories of history; methodological issues in contemporary Marxism.

**Requisites:** SOC/C&E SOC 475

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**SOC/C&E SOC 623 – GENDER, SOCIETY, AND POLITICS**

3 credits.

Examines the relationship between the social structures of gender (e.g., the domestic division of labor, sex-segregated occupational structures, gender ideologies, the social organization of sexuality) and political institutions, political activities, and state policies. SOC/C&E SOC 357 or a Gender Women's Studies course with a S, Y or Z breadth designation

**Requisites:** Junior standing.

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**SOC 624 – POLITICAL SOCIOLOGY**

3 credits.

Theory of democracy, political culture, comparative studies of voting behavior, political decisions, collective violence, regime breakdowns, social movements, mobilization processes, frame analysis.

**Requisites:** SOC/C&E SOC 475

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC 626 – SOCIAL MOVEMENTS**

3 credits.

Role of social structure, authorities and movement participants, and leadership in the origins, mobilization, participation, strategy and tactics, and potential for success of social movements.

**Requisites:** Intro Soc course (SOC/C&E SOC 140, 181, 210, or 211) or Soc/Asian American 220 or Soc/Community Environmental SOC/C&E SOC 357 or equivalent

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC/C&E SOC 630 – SOCIOLOGY OF DEVELOPING SOCIETIES/THIRD WORLD**

3 credits.

Review of problems and prospects of so-called "developing societies." Includes theory of economic/social development, political economic organizations of "developing" societies, history of colonialism/imperialism, attempts to industrialize and results of those attempts.

**Requisites:** Junior standing

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC 632 – SOCIOLOGY OF ORGANIZATIONS**

3-4 credits.

Sociological perspectives on the structures and processes of large-scale formal organizations in Western society; a wide ranging examination of contemporary organizational theory and research, with illustrations from business, governmental, military, political and educational organizations.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC 633 – SOCIAL STRATIFICATION**

3 credits.

Classical and contemporary theories of the nature of social inequality; recent patterns and trends in inequality in the US; analysis of inequalities based on class, race, gender; the relationship of inequality to globalization, immigration, and politics.

**Requisites:** Intro Soc course (SOC/C&E SOC 140, 181, 210, or 211) and SOC/C&E SOC 360

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**SOC/LCA/RELIG ST 634 – SOCIAL STRUCTURE OF INDIA**

3 credits.

Analysis of the major institutions of India with special attention to the relationship between Hindu community organization, caste and the family; the effects of political developments, population growth, industrialization, and urbanization.

**Requisites:** Intro Soc course (SOC/C&E SOC 140, 181, 210, or 211) or consent of instructor

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**SOC 640 – SOCIOLOGY OF THE FAMILY**

3 credits.

Examines family life from a sociological perspective, drawing on insights from demography, economics, history and anthropology. Considers theories and empirical evidence about families as social institutions; patterns of family change; and families and inequality.

**Requisites:** CE SOC/SOC/C&E SOC 360

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC/LAW/LEGAL ST 641 – SOCIOLOGY OF LAW**

3-4 credits.

Theory and research on the social origins, processes and effects of law; examination of law-related behavior, legal institutions, law and social structure, and law and social change; linkage to contemporary theoretical and political debates.

**Requisites:** Junior standing and either SOC 441 or SOC/C&E SOC 475, or Law student

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**SOC 643 – SOCIOLOGY OF OCCUPATIONS AND PROFESSIONS**

3 credits.

Introduction to theories and empirical studies on occupations and professions. Examination of the historical change, social structure, market competition, lifestyles, career path, workplace interaction, and other aspects of professional life from the late nineteenth century to the age of globalization.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**SOC/C&E SOC/URB R PL 645 – MODERN AMERICAN COMMUNITIES**  
3 credits.

Relevance of the concept of community to American society. Review of several basic theories of community and analysis of the nature of community in the broader political and economic context.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC 646 – RACE AND ETHNIC RELATIONS**  
3 credits.

Institutional, ecological, demographic, and social psychological aspects in the United States and elsewhere; historical and contemporary coverage.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**SOC 647 – SOCIOLOGY OF SPORT**  
3 credits.

Sport as a social institution; social characteristics and problems of sport at the youth, school, college, and professional levels.

**Requisites:** Intro Soc course (SOC/C&E SOC 140, 181, 210, or 211) or consent of instructor

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**SOC/ED POL 648 – SOCIOLOGY OF EDUCATION**  
3 credits.

Educational institutions as social systems; role relationships, community contexts, relevant values and ideals, stratification, mobility, and recruitment to varied educational organizations, comparative educational systems.

**Requisites:** Intro Soc course (Soc/CE SOC/C&E SOC 140, SOC 181, Soc/CE SOC/C&E SOC 210, or Soc/CE SOC/C&E SOC 211) and Soc/CE SOC/C&E SOC 360, or declared in any School of Education program

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOC/C&E SOC 649 – SOCIOLOGY OF WORK AND EMPLOYMENT**  
3 credits.

Introduction to key themes in the sociology of work and employment. Uses comparative, historical, and theoretical perspectives to analyze contemporary transformations of work and employment in the 'new economy', with particular emphasis on the United States, Western Europe, and Japan.

**Requisites:** Intro Soc course (SOC/C&E SOC 140, 181, 210, or 211) and SOC/C&E SOC 357

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**SOC/C&E SOC 650 – SOCIOLOGY OF AGRICULTURE**  
3 credits.

Introduction to sociology of agriculture in advanced industrial-capitalist societies, including theoretical, historical, and empirical issues of agriculture in the United States.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**SOC/C&E SOC 652 – SOCIOLOGY OF ECONOMIC INSTITUTIONS**  
3 credits.

Sociological perspectives on the organization of the firm, financial markets, and work, intermediate associations (unions, ethnic economies), the state, and the international economy. Contrast between neoclassical, traditional institutionalist, post-fordist, and neo-fordist perspectives on the nature and evolution of these institutions.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/C&E SOC 211)

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOC/C&E SOC 655 – MICROFOUNDATIONS OF ECONOMIC SOCIOLOGY**  
3 credits.

A review and critique of economic theory from a sociological perspective. Reviews central concepts of contemporary microeconomics (e.g., rationality, exchange, strategic interaction, evolution, information), addressing critiques and alternatives offered by economic sociologists, economists, and other behavioral and social scientists.

**Requisites:** Intro Soc (SOC/C&E SOC 140, 181, 210, or 211), SOC/C&E SOC 357, SOC/C&E SOC 360, Senior standing, and consent of instructor

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**SOC/ECON 663 – POPULATION AND SOCIETY**

3 credits.

Social and economic determinants and consequences of contemporary and historical population trends in both developed and developing societies. Fertility, mortality, migration, population distribution, age structure, population growth.

**Requisites:** Any one of the following: SOC 170, SOC/C&E SOC 357, SOC/C&E SOC/POP HLTH 380, ECON 101, ECON 111, AAE 215; or consent of instructor

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SOC/HISTORY 670 – CAPITALISM, SOCIALISM, AND DEMOCRACY IN AMERICA SINCE 1890**

3-4 credits.

Political institutional arrangements which have emerged since 1890 and how they have influenced social and economic policies implemented since the Second World War. Why the working class has been politically weak in America; policy consequences of this weakness.

**Requisites:** Junior standing and SOC/C&E SOC/SOC 140, SOC 181, SOC/C&E SOC/SOC 210, SOC/C&E SOC/SOC 211, SOC 125, HISTORY 102, or HISTORY 109

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOC 674 – DEMOGRAPHIC TECHNIQUES I**

3 credits.

Methods of measurement for enumeration and registration data; construction of life tables; measures of fertility, nuptiality and migration; examination of census variables.

**Requisites:** Junior standing and CE SOC/SOC/C&E SOC 357

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SOC/C&E SOC 676 – APPLIED DEMOGRAPHY: PLANNING AND POLICY**

3 credits.

Introduction to demographic concepts, methods, data, and trends for application in business, government, planning and other applied areas. Emphasis on U.S. census data and their uses.

**Requisites:** Intro Soc course (SOC/C&E SOC 140, 181, 210, or 211) and SOC/C&E SOC 357

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOC 678 – SOCIOLOGY OF PERSECUTION**

3 credits.

Persecution as an object of sociological investigation with special focus on the perpetrators' motivations, the machinery of persecution policies, the behaviors of state agents, and the attitudes and strategies displayed by the potential victims.

**Requisites:** Junior standing and SOC/C&E SOC/SOC 140, SOC 181, SOC/C&E SOC/SOC 210, or SOC/C&E SOC/SOC 211

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**SOC 681 – SENIOR HONORS THESIS**

3 credits.

Intro Soc course (SOC/C&E SOC 140, 181, 210 or 211), SOC/C&E SOC 357, SOC/C&E SOC 360, SOC/C&E SOC 475, and written consent of instructor

**Requisites:** Honors status.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**SOC 682 – SENIOR HONORS THESIS**

3 credits.

Continuation of 681

**Requisites:** Honors status, SOC 681, and written consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC 691 – SENIOR THESIS**

2-3 credits.

**Requisites:** Intro Soc course (SOC/C&E SOC 140, 181, 210 or 211), SOC/C&E SOC 357, SOC/C&E SOC 360, SOC/C&E SOC 475, Senior standing, major in Soc, and consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC 692 – SENIOR THESIS**

2-3 credits.

Continuation of 691

**Requisites:** SOC 691 and written consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**SOC/C&E SOC 693 – PRACTICUM IN ANALYSIS AND RESEARCH**

3 credits.

Practical experience in techniques of social research through assignment to a research project for the semester. Lectures, readings, and discussions of the art and practice of research and the writing of research reports. For undergraduate and graduate students participating in the department's Concentration in Analysis and Research. Open only to students currently enrolled in CAR

**Requisites:** SOC/C&E SOC 357, SOC/C&E SOC 360, SOC/C&E SOC 361, and CAR internship.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Accelerated Honors (!)

**Repeatable for Credit:** No**Last Taught:** Spring 2017**SOC/LEGAL ST 694 – CRIMINAL JUSTICE FIELD OBSERVATION**

2-3 credits.

Field placements and seminar sessions to develop sociological understanding of criminal justice processes. Placement in criminal justice agencies and lectures and discussions applying concepts and theories to field experience.

**Requisites:** SOC/LEGAL ST 131 and Criminal Justice Certificate declaration**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Workplace - Workplace Experience Course

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC 698 – DIRECTED STUDY**

1-6 credits.

Graded on a Cr/N basis. Graded on a Credit/No-Credit basis

**Requisites:** Junior standing and written consent of instructor.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**SOC 699 – DIRECTED STUDY**

1-6 credits.

Graded on a lettered basis. Graded on a lettered basis

**Requisites:** Junior standing and written consent of instructor.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SOC 700 – INTRODUCTORY PROSEMINAR FOR GRADUATE STUDENTS**

1 credit.

An introduction to current issues in sociology and its subfields.

**Requisites:** Must be first-year Grad stdt in sociology and its subfields**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC/C&E SOC/I SY E/N E 708 – SOCIETAL RISK MANAGEMENT OF TECHNOLOGICAL HAZARDS**

3 credits.

Issues involved in decision-making regarding technological risks and risk management in areas such as nuclear power, hazardous waste disposal, and pollution control. Risk perception and cognitive biases; risk analysis and decision analysis; political issues in risk management; regulatory mechanisms; and risk communication. Selected case studies.

**Requisites:** STAT 311 or MATH/STAT 431 or SOC/C&E SOC 360, IE 516, Grad st; or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2015**SOC/ENGL 710 – INTERACTION ANALYSIS: TALK AS SOCIAL ORGANIZATION**

3 credits.

The study spoken English as a site for social organization. Theoretical foundations and methodological practices for conversation analysis will be explored using videotaped data from English. Content includes current critical trends in analyzing interaction as well as cross-cultural and cross-linguistic perspectives.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015



**SOC/C&E SOC 724 – INTERMEDIATE POLITICAL SOCIOLOGY**

3 credits.

Critical examination of theories and research in political sociology. Topics include: power and interests, state-formation, social movements, class and political behavior, revolutions, ideology, and states and social policy.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**SOC/C&E SOC 730 – INTERMEDIATE SOCIAL PSYCHOLOGY: THE INDIVIDUAL AND SOCIETY**

3 credits.

Major social psychological theories and research that focus on the individual in social context. Topics include: perspectives on socialization, the self, social perception and attribution, attitudes, language and nonverbal communication, and attraction and relationships.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC/C&E SOC 731 – INTERMEDIATE SOCIAL PSYCHOLOGY: GROUP AND COLLECTIVE PROCESSES**

3 credits.

Major social psychological theories and research that focus on interpersonal relations and group processes. Topics include: social interaction (influence, self-presentation, altruism, aggression), groups (cohesion, conformity, leadership, problem-solving, decision making), intergroup relations (conflict, stereotypes), n-person games (dilemmas, coalition formation).

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**SOC 735 – ETHNOMETHODOLOGY & CONVERSATION ANALYSIS**

3 credits.

This course is concerned with the analysis of everyday, local practices for assembling coherent and stable social environments. The focus on everyday practices derives from both ethnomethodological and conversation analytic literatures and investigations. Instruction will involve both didactic or illustrative presentations and hands-on work with interactional data from a variety of social settings, whether informal telephone calls, or more formal work or organizational settings.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC/C&E SOC 748 – ENVIRONMENTAL SOCIOLOGY**

3 credits.

Interaction between societies and their environments. Includes human ecology, environmental attitudes and individual actions, the social organization of environmental protection and exploitation and the effects of science, technology, and development.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**SOC/C&E SOC/F&W ECOL 749 – SOCIAL POLICY AND MANAGEMENT OF NATIONAL PARKS AND PROTECTED AREAS**

3 credits.

Explores the relationship of social policy to the formation and management of U.S. National Parks in the past, present and future. Implications of social policy for park systems and preserves throughout the world are addressed.

**Requisites:** Graduate or professional standing

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**SOC/C&E SOC 750 – RESEARCH METHODS IN SOCIOLOGY**

3 credits.

Application of scientific methods to the analysis of social phenomena; methodological orientations in sociology; types of research procedure: nature of sociological variables; lectures and lab.

**Requisites:** Grad st, SOC/C&E SOC 357 and 362 or equiv

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC 751 – SURVEY METHODS FOR SOCIAL RESEARCH**

3 credits.

Theoretical and practical issues involved in the design of surveys and their components. Students apply knowledge of survey research techniques to a specific and complete research project.

**Requisites:** Grad st and SOC/C&E SOC 361 or equiv

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SOC 752 – MEASUREMENT AND QUESTIONNAIRES FOR SURVEY RESEARCH**

3 credits.

Analysis and presentation of survey results through contingency table analysis. Techniques for assessing the quality of data produced by survey methods. Practical application of course material to a specific research problem through research reports and other exercises involving data analysis on a topic of the student's choice.

**Requisites:** SOC 751 or permission of inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC 753 – COMPARATIVE AND HISTORICAL METHODS IN SOCIOLOGY**

3 credits.

Students learn about comparative strategies and historical methods through methodological readings, exercises, and evaluations of exemplary analyses in which investigators of organizational structures, institutional relationships, political conflicts, and cultural patterns bring theory and historical-comparative evidence to bear on one another.

**Requisites:** SOC/C&E SOC 357 or 358/359 or undergrad methods sequence or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2010**SOC 754 – QUALITATIVE RESEARCH METHODS IN SOCIOLOGY**

3 credits.

This course teaches how qualitative research can be used to advance sociological theory. Topics include inductive and deductive research designs in qualitative research, conducting and analyzing interviews, content analysis, conducting observations, focus groups and data management in qualitative research.

**Requisites:** Grad st in Soc/CE Soc or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2011**SOC/C&E SOC/ED POL 755 – METHODS OF QUALITATIVE RESEARCH**

3 credits.

Introduces qualitative, or ethnographic, research methods, emphasizing those suitable for educational and other organizational settings. Considers strengths and limitations of qualitative approaches in relation to varied research problems. Explores methodological procedures from entry into the field through writing.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**SOC 756 – DEMOGRAPHIC TECHNIQUES II**

3 credits.

Intermediate to advanced tools used by demographers for studying the behavior of human populations: multiple decrement processes, stable population model, demographic relations in non-stable populations, model age patterns of vital events, indirect estimation methods.

**Requisites:** SOC 674 or consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**SOC 773 – INTERMEDIATE CLASSICAL THEORY**

3 credits.

Intensive and critical examination of the major theoretical traditions involved in sociology's development since the 19th century.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC/POP HLTH 797 – INTRODUCTION TO EPIDEMIOLOGY**

3 credits.

Lectures and discussions on design, implementation and interpretation of epidemiologic studies; emphasis on methodologic problems in the measurement of disease frequency, natural history and risk factors.

**Requisites:** Grad st or healthcare professional program st or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOC/FRENCH/GERMAN/HISTORY/POLI SCI 804 – INTERDISCIPLINARY WESTERN EUROPEAN AREA STUDIES SEMINAR**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**SOC/C&E SOC 875 – SPECIAL TOPICS**

1-4 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SOC 901 – SEMINAR: TOPICS IN CURRENT SOCIOLOGY**

2-3 credits.

Critical review of most recent research in sociology.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017

**SOC/C&E SOC/GEN&WS 904 – SOCIOLOGICAL PERSPECTIVES ON GENDER**

3 credits.

Advanced topics in the analysis of gender relations in society.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**SOC/ED POL 908 – SEMINAR-SOCIOLOGY OF EDUCATION**

3 credits.

Selected topics.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**SOC 910 – TEACHING SOCIOLOGY**

3 credits.

Alternatives in course organization, instructional methods, and grading techniques with emphasis on teaching basic undergraduate courses.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**SOC/C&E SOC 913 – SEMINAR-SOCIAL CHANGE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SOC 915 – SEMINAR-SOCIOLOGICAL THEORY**

3 credits.

Coordination of current theories and methods of relevance for sociological research.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SOC 918 – SEMINAR IN COMPARATIVE SOCIOLOGY OF CONTEMPORARY CAPITALISM**

3 credits.

Origins and consequences of inter-regime and inter-temporal variation in the institutions of capitalism. The evolution and current trajectory of contemporary capitalism across North America, Europe, and East Asia. Theoretical debates on the dynamics, contradictions and variations of capitalist systems. Background in basic concepts of economic sociology required.

**Requisites:** Soc 651 or 652 or equiv**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2013**SOC 919 – SEMINAR: TOPICS IN ECONOMIC SOCIOLOGY**

3 credits.

Explores the frontiers of research in economic sociology, drawing on recently published major work and on ongoing research by faculty and students.

**Requisites:** Soc 651 652, or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011**SOC/C&E SOC 922 – SEMINAR-RACE AND ETHNIC RELATIONS**

3 credits.

Theoretical, methodological, and current research problems.

**Requisites:** SOC 134 or 646 cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**SOC/C&E SOC 923 – SEMINAR-SOCIAL STRATIFICATION**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**SOC/URB R PL 924 – SEMINAR-POLITICAL SOCIOLOGY**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**SOC/ANTHRO/C&E SOC/ECON 925 – SEMINAR: SOCIO-ECONOMIC CHANGE IN UNDERDEVELOPED AREAS**

2-3 credits.

Social and economic factors relating to stability, growth, and change in the non-Western areas of the contemporary world.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**SOC/C&E SOC 929 – SEMINAR: CLASS ANALYSIS AND HISTORICAL CHANGE**

3 credits.

Selected topics in Marxist theory and research.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**SOC 930 – SEMINAR - SOCIO-LEGAL STUDIES**

1-3 credits.

A sociological exploration of work in the interdisciplinary "law and society" tradition. Themes include compliance and resistance, dispute resolution, legal consciousness, legal pluralism, law and politics, the social dynamics of legal institutions, and the allocative and distributive impact of law.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2013

**SOC/C&E SOC 940 – SEMINAR-SOCIOLOGY OF ECONOMIC CHANGE**

3 credits.

Theoretical and technical problems in research concerning organizational and socio-psychological aspects of changes in large scale social systems.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SOC/C&E SOC 945 – SEMINAR-RURAL SOCIOLOGY**

3 credits.

Theory and research in alternate semesters in rural aspects of population, stratification, social change, and groups and institutions.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

**SOC/C&E SOC 948 – SEMINAR: ENVIRONMENTAL SOCIOLOGY**

3 credits.

Examines topics such as theories of environment and society, the treadmill of production, environmental movements, political ecology, environmental justice, consumption, ecological modernization, sustainability, environmental risk, and the sociology of environmental science.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOC 952 – SEMINAR-MATHEMATICAL AND STATISTICAL APPLICATIONS IN SOCIOLOGY**

3 credits.

Selected topics in measurement and model construction in social research.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SOC/ED POL 955 – SEMINAR-QUALITATIVE METHODOLOGY**

3 credits.

An intensive, practice-oriented exploration of one qualitative research method such as participant-observation, interviewing, narrative analysis, oral history or ethnography. Treatment of the method includes: logics of inquiry, analysis of data obtained through the method, and uses of the method.

**Requisites:** Grad st; soc, educ, or related soc sci background cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SOC/C&E SOC 960 – SEMINAR-CURRENT METHODOLOGICAL ISSUES IN SOCIAL PSYCHOLOGY**

3 credits.

Alternative research designs and processes, measurement, and analytical techniques in social psychology; experience in developing and utilizing research plans and techniques.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2013

**SOC/C&E SOC 961 – SEMINAR-ADVANCED SOCIAL PSYCHOLOGY**

3 credits.

A selected research or theoretical area. Topic varies.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2013

**SOC/C&E SOC 965 – SEMINAR-RECENT DEVELOPMENTS IN SOCIAL PSYCHOLOGY**

3 credits.

Current literature, emphasis on recent journal articles.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2009**SOC/C&E SOC 971 – SEMINAR-TOPICS IN DEMOGRAPHY AND ECOLOGY**

3 credits.

Content varies.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**SOC/C&E SOC 977 – SEMINAR-HUMAN ECOLOGY**

3 credits.

Review of ecological theory and research; critical assessment of the ecological complex (population, organization, environment, and technology); problems of measurement.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**SOC/HISTORY/URB R PL 979 – SEMINAR IN URBAN HISTORY**

3 credits.

Causes and consequences of urbanization, stressing social and economic aspects of major population movements, with particular attention to the United States.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**SOC/A A E/ANTHRO/C&E SOC/GEOG/HISTORY/LACIS/POLI SCI/ PORTUG/SPANISH 982 – INTERDEPARTMENTAL SEMINAR IN THE LATIN-AMERICAN AREA**

1-3 credits.

Interdisciplinary inquiry in Latin American society and culture.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SOC 983 – RESEARCH: ECONOMIC SOCIOLOGY AND COMPARATIVE POLITICAL ECONOMY**

1-3 credits.

Presentation and discussion of on-going research by graduate students and faculty in the area of comparative political economy and economic sociology.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SOC 984 – RESEARCH: SOCIOLOGY OF GENDER TRAINEES**

1-3 credits.

A weekly seminar for sociology graduate students interested in gender-related research, focusing on presentations of student and faculty research projects and discussion of current debates within the sociology of gender.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SOC/C&E SOC 985 – RESEARCH: COMMUNITY AND ENVIRONMENTAL SOCIOLOGY**

1-3 credits.

Critical analysis of recent theoretical and methodological issues through presentations of research in progress by faculty, graduate students, and visiting scholars.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SOC/C&E SOC 987 – RESEARCH: RACE AND ETHNIC STUDIES**

1-3 credits.

Analysis of recent research and theory, based on reviews of literature and presentations of their own work by faculty, graduate students, and visiting scholars.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SOC 990 – THESIS**

1-12 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**SOC 991 – RESEARCH : SOCIAL PSYCHOLOGY TRAINEES**

1-3 credits.

Critical analysis of recent theoretical developments in social psychology and of research designed by participants.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SOC 992 – RESEARCH: SOCIAL ORGANIZATION TRAINEES POLITICS, CULTURE, AND SOCIETY**

1-3 credits.

**Requisites:** Social organization trainee or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SOC/C&E SOC 993 – RESEARCH: SOCIOLOGY OF ECONOMIC CHANGE TRAINEES**

1-3 credits.

Presentations of research in progress concerning social and economic change in developing countries.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SOC 994 – COLLOQUIUM IN CRITICAL SOCIOLOGY**

1-3 credits.

Selected topics in critical sociology taught in intensive units three to four weeks in length. Two to three sessions per week.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SOC/C&E SOC 995 – RESEARCH: METHODOLOGY TRAINEES**

1-3 credits.

**Requisites:** Method trainee or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SOC/C&E SOC 997 – RESEARCH: DEMOGRAPHY AND ECOLOGY TRAINEES**

1-3 credits.

**Requisites:** Demography ecology trainee or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SOC 999 – READING AND RESEARCH IN SOCIOLOGY**

1-12 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SOIL SCIENCE (SOIL SCI)****SOIL SCI 1 – COOPERATIVE EDUCATION/CO-OP IN SOIL SCIENCE**

1 credit.

Full-time off-campus work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career. Students receive credit only for the term in which they are actively enrolled and working. The same work experience may not count towards credit in Soil Science 399.

**Requisites:** So st, and consent of supervising instructor and academic advisor.

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**SOIL SCI/ENVIR ST 101 – FORUM ON THE ENVIRONMENT**

1-2 credits.

Lectures and discussions about environmental issues. Historical and contemporary environmental impacts of humans on the biosphere. Global futures: population, technology, societal values, resources and prospects for sustainable management.

**Requisites:** Open to Fr

**Course Designation:** Breadth - Either Social Science or Natural Science Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SOIL SCI/ATM OCN 132 – EARTH'S WATER: NATURAL SCIENCE AND HUMAN USE**

3 credits.

Water is central to the functioning of planet Earth. As humans increase their impact on Earth's systems and cohabitants, our understanding of the multiple roles of water becomes critical to finding sustainable strategies for human and exosystem health. This course explores the science of Earth's hydrosphere, with constant attention to human uses and impacts. Open to Fr

**Requisites:** HS math science.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**SOIL SCI/ENVIR ST/GEOG 230 – SOIL: ECOSYSTEM AND RESOURCE**  
3 credits.

Soils are fundamental to ecosystem science. A systems approach is used to investigate how soils look and function. Topics investigated include soil structure, biology, water, fertility, and taxonomy as well as the human impact on the soil environment.

**Requisites:** Not open to students with credits in Soil Sci 301

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOIL SCI 289 – HONORS INDEPENDENT STUDY**

1-2 credits.

Inter-Ag 288

**Requisites:** Enrolled in the CALS Honors Prgm Sophomore or Junior standing.

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**SOIL SCI 299 – INDEPENDENT STUDY**

1-3 credits.

**Requisites:** Open to Freshmen, Sophomore or Junior standing written consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SOIL SCI 301 – GENERAL SOIL SCIENCE**

4 credits.

Physical chemical and biological properties of soils as they affect soil-plant-water relations, soil classification and suitability for agricultural and other uses.

**Requisites:** MATH 112 CHEM 103 or equiv

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOIL SCI 305 – FIELD STUDY OF SOIL**

1 credit.

Intensive in situ description and evaluation of soil morphology. Field trips required.

**Requisites:** Soil Sci 230, 301 or equiv

**Course Designation:** Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**SOIL SCI 321 – SOILS AND ENVIRONMENTAL CHEMISTRY**

3 credits.

Sources, reactions, transport, effects, and fates of chemical species in soils and associated water and air environments. Emphasis on the chemical behavior of elements and compounds and the phenomena affecting natural and anthropogenic materials in soils.

**Requisites:** CHEM 103-104 or 109-110 or equivalent

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOIL SCI 322 – PHYSICAL PRINCIPLES OF SOIL AND WATER MANAGEMENT**

3 credits.

Soil physical properties and interactions as related to soil and water resource management and conservation. Water runoff (leading to soil erosion and surface water contamination); tillage and nutrient management; soil thermal and moisture regimes; solute movement; soil compaction, air and aeration.

**Requisites:** PHYSICS 103; Soil Sci 301 or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOIL SCI/PL PATH 323 – SOIL BIOLOGY**

3 credits.

Nature, activities and role of organisms inhabiting soil. Effects of soil biota on ecosystem function, response to cultural practices, and impacts on environmental quality, including bioremediation of contaminated soils.

**Requisites:** CHEM 104 and BOTANY/BIOLOGY 130 or equiv

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOIL SCI/ENVIR ST 324 – SOILS AND ENVIRONMENTAL QUALITY**

3 credits.

Interaction of soils with environmental contaminants and the role of soils in pollution control.

**Requisites:** CHEM 103 104 or equiv; Jr st

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**SOIL SCI 325 – SOILS AND LANDSCAPES**

3 credits.

Learn how to read the landscape and understand the relationships between soils, land use and landform. Discuss soil-forming factors, soil processes, soil classification, the 12 soil orders, soil survey and mapping. We will make several field trips and attendance is essential and required.

**Requisites:** ENVIR ST/GEOG/SOIL SCI/ENVIR ST/GEOG 230 or SOIL SCI 301

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOIL SCI/AGRONOMY/HORT 326 – PLANT NUTRITION MANAGEMENT**

3 credits.

Functions, requirements and uptake of essential plant nutrients; chemical and microbial processes affecting nutrient availability; diagnosis of plant and soil nutrient status; fertilizers and efficient fertilizer use in different tillage systems.

**Requisites:** Soil Sci 230 or 301 and one of the following: Bot 100 or 130; HORT 120 or 122; Agron 100

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOIL SCI/HORT 332 – TURFGRASS NUTRIENT AND WATER MANAGEMENT**

3 credits.

Nutrient requirements of turfgrasses; nature of turfgrass response to fertilization; soil and tissue testing methodology and interpretation; irrigation scheduling; irrigation water quality; use of irrigation and fertilizer to minimize environmental impact; writing effective nutrient management plans.

**Requisites:** Soil Sci/Hort/Agron 326

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SOIL SCI/AGRONOMY/ENTOM/HORT/PL PATH 354 – DIAGNOSING AND MONITORING PEST AND NUTRIENT STATUS OF FIELD CROPS**

1 credit.

This course is designed to provide students with information necessary to diagnosis and monitor corn, soybean, alfalfa and wheat for pests (insects, weeds, diseases) and nutrient deficiency symptoms including perspectives from Agronomy, Entomology, Horticulture, Plant Pathology and Soil Science. Proper soil and pest sampling information will be provided as will proper crop staging techniques which are essential for pest and nutrient management.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOIL SCI/AGRONOMY/BOTANY 370 – GRASSLAND ECOLOGY**

3 credits.

Understand factors driving global, continental, regional, and local distribution of grasslands. Discuss how management affects provision of grassland ecosystem goods and services. Compare and contrast plant community and ecosystem dynamics in native prairie and intensively managed pastures.

**Requisites:** Intro crse in Agronomy, Botany, or Soil Sci; or Bot/Zoo/Biol 151-152; or Biocore 301 or 333

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOIL SCI/BSE/CIV ENGR 372 – ON-SITE WASTE WATER TREATMENT AND DISPERSAL**

2 credits.

On-site treatment and dispersal of waste water from homes, commercial sources and small communities. Sources, pretreatment units, nutrient removal units, constructed wetlands, surface and soil dispersal systems, recycle and reuse systems, regulations, alternative collection systems.

**Requisites:** CHEM 103

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOIL SCI 375 – SPECIAL TOPICS**

1-6 credits.

**Requisites:** Cons inst

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SOIL SCI 399 – COORDINATIVE INTERNSHIP/COOPERATIVE EDUCATION**

1-8 credits.

**Requisites:** So, Jr or Sr st and cons of supervising inst, advisor, and internship program coordinator

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Workplace - Workplace Experience Course

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SOIL SCI 400 – STUDY ABROAD IN SOIL SCIENCE**

1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. W.-Madison Study Abroad Program

**Requisites:** Current registration in a U.

**Repeatable for Credit:** Yes, unlimited number of completions

**SOIL SCI/MICROBIO 425 – ENVIRONMENTAL MICROBIOLOGY**

3 credits.

Microbial interactions in soils, water, extreme environments and biofilms. Modern methods for studying microbial ecology. role of microbes in nutrient cycles and biogeochemistry. Use of microbes for mitigating manmade environmental problems of industrial, agricultural, and domestic origin.

**Requisites:** Bact 303, CHEM 341 or 343**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**SOIL SCI 431 – SOILS OF THE WORLD**

1 credit.

A overview of the soils of the world and the grand environmental challenges that face humanity. Soils of the USA and Wisconsin included.

**Requisites:** None**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**SOIL SCI/F&W ECOL 451 – ENVIRONMENTAL BIOGEOCHEMISTRY**

3 credits.

Emphasis is given to a consideration of the processes influencing the distribution and cycling of chemical elements in native and anthropogenic ecosystem-level cycles of elements, and biogeochemical cycling in major soil-biome systems.

**Requisites:** CHEM 103-104 or equivalent**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2013**SOIL SCI/AN SCI/DY SCI/ENVIR ST 468 – MANAGING THE ENVIRONMENTAL IMPACTS OF LIVESTOCK OPERATIONS**

2 credits.

Introduces nonpoint pollution policies and regulations and environmental losses impacting air and water quality. Discuss management practices that influence the cycling and balance of nitrogen and phosphorus across a farm and its components (livestock, crop and soil).

**Requisites:** Junior standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2013**SOIL SCI/AN SCI/DY SCI/FOOD SCI 472 – ANIMAL AGRICULTURE AND GLOBAL SUSTAINABLE DEVELOPMENT**

1 credit.

This course examines issues related to global agriculture and healthy sustainable development. Using a regional approach and focusing on crops and livestock case studies, students will learn the interdependence between US agriculture and agriculture in emerging economies. Some topics covered include population and food, immigration, the environment; crop and livestock agriculture; global trade; sustainability; food security, the role of women in agriculture, and the role of dairy products in a healthy diet.

**Requisites:** None**Repeatable for Credit:** No**Last Taught:** Spring 2017**SOIL SCI/AN SCI/DY SCI/FOOD SCI 473 – INTERNATIONAL FIELD STUDY IN ANIMAL AGRICULTURE AND SUSTAINABLE DEVELOPMENT**

2 credits.

This course is the field study component to DY SCI/AN SCI/FOOD SCI/ SOIL SCI 472, which examines issues related to global agriculture and healthy sustainable development. Using a regional approach and focusing on crops and livestock case studies, students will learn the interdependence between US agriculture and agriculture in emerging economies. Some topics covered include population and food, immigration, the environment; crop and livestock agriculture; global trade; sustainability; and the role of women in agriculture and the role of dairy products in a healthy diet.

**Requisites:** DY SCI/AN SCI/FOOD SCI/SOIL SCI 472**Repeatable for Credit:** No**SOIL SCI 499 – SOIL MANAGEMENT**

3 credits.

A capstone applying independent and team problem solving, critical thinking and oral and written communication skills to issues in soil science.

**Requisites:** Sr or 2nd sem Jr majoring in soil sci or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SOIL SCI/MICROBIO 523 – SOIL MICROBIOLOGY AND BIOCHEMISTRY**

3 credits.

Transformations of nutrients and contaminants in soils and groundwater by microorganisms: emphasis on enzymatic mechanisms and metabolic pathways. Approaches for analyzing microbial populations and activities including molecular techniques. Applications of microbial activities for bioremediation of contaminated soils and groundwater.

**Requisites:** CHEM 104; Bact 303 or Bot 375 or BIOCHEM 501, or cons inst  
**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**SOIL SCI/F&W ECOL/HORT 524 – URBAN SOIL AND ENVIRONMENT**  
3 credits.

Many environmental issues related to urbanization are derived from the manipulation of soil. By coupling contemporary literature in urban soils with soil science, students will be able to evaluate environmental issues within the urban environment and provide new ways of remediating their impact.

**Requisites:** Soil Sci 301 or 230

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOIL SCI/GEOG 525 – SOIL GEOMORPHOLOGY**  
3 credits.

Soil development as related to landscape throughout the Quaternary; focusing on the relationship of soils to climate and vegetation, landscape evolution, and time; principles of soil stratigraphy; case histories of soil geomorphic studies; field trips.

**Requisites:** Soil Sci 325 or Geog/Soil Sci 431; an intermed level crse in geomorphology; or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2013

**SOIL SCI/GEOG 526 – HUMAN TRANSFORMATIONS OF EARTH SURFACE PROCESSES**  
3 credits.

This course takes an earth systems approach to explore the role of human societies in shaping earth surface processes from local to global scales. We address how alterations to our landscapes and waterways affect biological, physical and chemical interactions among our biosphere, geosphere, hydrosphere and atmosphere. We discuss methods used to distinguish the "human impact" from background variability.

**Requisites:** Junior standing or GEOG/ENVIR ST/GEOG 120

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**SOIL SCI/AGRONOMY/ATM OCN 532 – ENVIRONMENTAL BIOPHYSICS**  
3 credits.

Plant-environment interactions with particular reference to energy exchanges and water relations. Models are used to provide a quantitative synthesis of information from plant physiology, soil physics, and micrometeorology with some consideration of plant-pest interactions.

**Requisites:** Intro calc, PHYSICS 103, BOTANY/BIOLOGY 130 comp programng; or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SOIL SCI/ENVIR ST 575 – ASSESSMENT OF ENVIRONMENTAL IMPACT**  
3 credits.

Overview of methods for collecting and analyzing information about environmental impacts on agricultural and natural resources, including monitoring the physical environment and relating impacts to people and society. Authorization may be required

**Requisites:** Jr st.

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**SOIL SCI 601 – SPECIAL TOPICS IN SOIL SCIENCE**  
1-3 credits.

Topics in various areas of soil science.

**Requisites:** Jr st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2015

**SOIL SCI/ENTOM/F&W ECOL/M&ENVTOX/PL PATH 606 – COLLOQUIUM IN ENVIRONMENTAL TOXICOLOGY**  
1 credit.

Current topics in molecular and environmental toxicology and problems related to biologically active substances in the environment. Topics vary each semester. Lectures are by resident and visiting professors and other researchers.

**Requisites:** Biology/ZOOLOGY/BIOLOGY 101, Biology/BOTANY/BIOLOGY 130, or equivalent

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**SOIL SCI 621 – SOIL CHEMISTRY**

3 credits.

Solubility relationships, complex ions, ion exchange and oxidation-reduction reactions in soils.

**Requisites:** Chem 221; Soil Sci 326; or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOIL SCI 622 – SOIL PHYSICS**

3 credits.

Physical properties of soils. Water retention and transmission in soils. Transport of heat, gas, and solutes. Physical environment of soil organisms and soil-plant-water relations.

**Requisites:** Calculus a course in physics, Soil Sci 301 or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**SOIL SCI/CIV ENGR 623 – MICROBIOLOGY OF WATERBORNE PATHOGENS AND INDICATOR ORGANISMS**

3 credits.

Source, environmental fate and transport of major groups of waterborne pathogens, including epidemiology and testing of associated indicator organism. Management and treatment technologies for prevention of pathogen transmission.

**Requisites:** Soil Sci 523 or Civ Engr 322 or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOIL SCI/BOTANY/HORT 626 – MINERAL NUTRITION OF PLANTS**

3 credits.

Essential and beneficial elements, solutions and soil as nutrient sources, rhizosphere chemistry, nutritional physiology, ion uptake and translocation, functions of elements, nutrient interactions, genetics of plant nutrition.

**Requisites:** Botany 350 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOIL SCI/CIV ENGR/M&ENVTOX 631 – TOXICANTS IN THE ENVIRONMENT: SOURCES, DISTRIBUTION, FATE, & EFFECTS**

3 credits.

Nature, sources, distribution, and fate of contaminants in air, water, soil, and food and potential for harmful exposure.

**Requisites:** CHEM 343 345 or equiv; CHEM 561 or equiv; PHYSICS 103 104 or equiv; MATH 211; or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOIL SCI 681 – SENIOR HONORS THESIS**

2-4 credits.

**Requisites:** Honors program candidacy

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2009

**SOIL SCI 682 – SENIOR HONORS THESIS**

2-4 credits.

Continuation of 681.

**Requisites:** Honors program candidacy Soil Sci 681

**Course Designation:** Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2007

**SOIL SCI/ENVIR ST/LAND ARC 695 – APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS IN NATURAL RESOURCES**

3 credits.

Course has four components: 1) Detailed review of GIS concepts; 2) Case studies; 3) GIS implementation methods; 4) Laboratory to provide "hands-on" GIS experience.

**Requisites:** Land Arc/Envir St/Civ Engr 655 or GEOG/CIV ENGR/ ENVIR ST 377 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SOIL SCI 699 – SPECIAL PROBLEMS**

1-3 credits.

**Requisites:** Sr st and cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SOIL SCI 728 – GRADUATE SEMINAR**

1 credit.

Topical oral presentations by guest speakers and graduate students on contemporary concerns and issues involving land and soils.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SOIL SCI 799 – PRACTICUM IN SOIL SCIENCE TEACHING**

1-3 credits.

Instructional orientation to teaching at the higher education level in the agricultural and life sciences, direct teaching experience under faculty supervision, experience in testing and evaluation of students, and the analysis of teaching performance.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SOIL SCI 875 – SPECIAL TOPICS**

1-4 credits.

Of current interest to graduates.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SOIL SCI 990 – RESEARCH**

1-12 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

## SPANISH (SPANISH AND PORTUGUESE) (SPANISH)

**SPANISH 101 – FIRST SEMESTER SPANISH**

4 credits.

All basic language skills: listening comprehension, speaking, reading, and writing. Classes meet five times per week.

**Requisites:** Open to Freshmen

**Course Designation:** Frgn Lang - 1st semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH 102 – SECOND SEMESTER SPANISH**

4 credits.

Continuation of 101. Open to Freshmen

**Requisites:** SPANISH 101 or appropriate score on placement exam.

**Course Designation:** Frgn Lang - 2nd semester language course

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH 203 – THIRD SEMESTER SPANISH**

4 credits.

Intermediate level language review, Hispanic readings, culture, and patterns of conversation. Open to Fr

**Requisites:** SPANISH 102 or appropriate score on placement exam.

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH 204 – FOURTH SEMESTER SPANISH**

4 credits.

Second-semester intermediate level language review, extensive readings in literature, intensive written and oral activities. Open to Fr

**Requisites:** SPANISH 203 or appropriate score on placement exam.

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH 206 – FIRST SEMESTER SPANISH FOR SPANISH SPEAKERS**

4 credits.

No formal training in Span necessary, but stdts may have up to 2 yrs of HS Span or cons inst. Open to Fr

**Requisites:** Span lang backgrnd at home (or extensive backgrnd abroad).

**Course Designation:** Frgn Lang - 3rd semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**SPANISH 207 – SECOND SEMESTER SPANISH FOR SPANISH SPEAKERS**

4 credits.

Stdts may have up to 3 yrs HS Span or equiv of Span 206 or cons inst

**Requisites:** Spanish language background at home (or extensive background abroad) plus Span 206.

**Course Designation:** Frgn Lang - 4th semester language course

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014



**SPANISH 223 – INTRODUCTION TO HISPANIC CULTURES**

3 credits.

Introduction to the issues which shape the national cultures and the cultural practices of the Hispanic world. Emphasis on diversity, emergence of new imagined communities, cultural hybridity, and social movements within a historical framework. Open to Fr

**Requisites:** SPANISH 226 (or higher language) or con reg.

**Course Designation:** Breadth - Humanities

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH 224 – INTRODUCTION TO HISPANIC LITERATURES**

3 credits.

An introduction to reading and analyzing literary works, with special emphasis on development of oral and written skills for the discussion of literature. Concentration on methods of analyzing basic literary forms, conventions, genres, and representative short texts in Spanish. Open to Fr

**Requisites:** SPANISH 226 (or higher language placement) or con reg.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH 226 – INTERMEDIATE LANGUAGE PRACTICE WITH EMPHASIS ON WRITING AND GRAMMAR**

3 credits.

Intensive practice in reading, writing, and grammar. May be taken concurrently with SPANISH 223 or 224.

**Requisites:** SPANISH 204 or appropriate score on placement exam.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH/AFROAMER/ANTHRO/C&E SOC/GEOG/HISTORY/LACIS/  
POLI SCI/SOC 260 – LATIN AMERICA: AN INTRODUCTION**

3-4 credits.

Latin American culture and society from an interdisciplinary perspective; historical developments from pre-Columbian times to the present; political movements; economic problems; social change; ecology in tropical Latin America; legal systems; literature and the arts; cultural contrasts involving the US and Latin America; land reform; labor movements; capitalism, socialism, imperialism; mass media.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SPANISH 299 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2011

**SPANISH 311 – ADVANCED LANGUAGE PRACTICE**

3 credits.

Advanced language practice, including intensive writing and work in pertinent areas of grammar and stylistics.

**Requisites:** Cons inst or SPANISH 226

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH 319 – TOPICS IN SPANISH LANGUAGE PRACTICE**

1-3 credits.

Intensive oral and written practice in major areas of Spanish professional usage. Each offering will focus on an important field in which students tend to apply their language skills (journalism, commerce, medicine, law, social services, etc.).

**Requisites:** SPANISH 311

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SPANISH 320 – SPANISH PHONETICS**

3 credits.

Practice course for improvement of pronunciation, and introduction to transcription and phonetic and phonemic analysis.

**Requisites:** SPANISH 226 or consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH 321 – THE STRUCTURE OF MODERN SPANISH**

3 credits.

This course will guide students to a deeper understanding of the structure and usage of modern Spanish through an examination of linguistic phenomena found throughout the Spanish-speaking world. Students will analyze authentic speech and texts of varied genres (newspaper articles, literature, advertisements, blogs, etc.) both to understand the conventions of modern Spanish structure and usage, and to investigate how grammatical structure may be manipulated by Spanish speakers (including themselves) to accomplish particular communicative goals. Open to freshmen

**Requisites:** SPANISH 226 or consent of instructor.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH 322 – SURVEY OF EARLY HISPANIC LITERATURE**

3 credits.

Selected readings, discussions, and literary history of Spain and Spanish America through 1700.

**Requisites:** SPANISH 226 (or higher lang placement), SPANISH 223, 224

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH 323 – ADVANCED LANGUAGE PRACTICE WITH EMPHASIS ON EXPOSITORY WRITING**

3 credits.

Analysis of important questions of syntax, style, and idiomatic Spanish, with emphasis on expository writing.

**Requisites:** Graduate standing or SPANISH 311

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**SPANISH 324 – SURVEY OF MODERN SPANISH LITERATURE**

3 credits.

Readings, discussions, literary history. Eighteenth to twentieth centuries.

**Requisites:** SPANISH 226, 223, 224

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH 325 – ADVANCED CONVERSATION**

3 credits.

**Requisites:** SPANISH 226

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH 326 – SURVEY OF SPANISH AMERICAN LITERATURE**

3 credits.

Introduction to the study of Spanish American literature; reading, discussions, literary history. Eighteenth to twentieth centuries.

**Requisites:** SPANISH 226, 223, 224

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH 327 – INTRODUCTION TO SPANISH LINGUISTICS**

3 credits.

Introduction to the linguistic analysis of Spanish, including morphology, syntax, dialectology, history of the language, language acquisition, and sociolinguistic variation.

**Requisites:** SPANISH 320; not open to graduate students

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH/INTL BUS 329 – SPANISH FOR BUSINESS**

3 credits.

Spanish lexicon and linguistic style for management, banking, accounting, capital investment, personnel and office systems, production of goods and services, marketing, finance, and import/export; includes translation and interpretive activities.

**Requisites:** SPANISH 311

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH 331 – SPANISH APPLIED LINGUISTICS**

3 credits.

Provides an overview of second language acquisition theories and processes as they pertain to Spanish second language learners and characterizes the linguistic challenge that specific Spanish structures pose for English-speakers in particular.

**Requisites:** SPANISH 311

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH 359 – SPANISH BUSINESS AREA STUDIES**

3 credits.

Spanish business language, culture and practice within Spanish-speaking economic markets.

**Requisites:** SPANISH/INTL BUS 329 or SPANISH 311 with cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SPANISH 361 – SPANISH CIVILIZATION**

3 credits.

Cultural evolution from medieval period through twentieth century; conducted in Spanish; illustrated lectures.

**Requisites:** SPANISH 223 and SPANISH 224

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH 363 – SPANISH AMERICAN CIVILIZATION**

3 credits.

Cultural evolution of Spanish America from pre-Hispanic days through the present. Conducted in Spanish. Illustrated lectures and discussion.

**Requisites:** SPANISH 223 and SPANISH 224

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH/MEDIEVAL 414 – LITERATURA DE LA EDAD MEDIA CASTELLANA (SS. XII-XV)**

3 credits.

The study of a particular author, work, topic, or literary genre of the Middle Ages and/or Early Renaissance (through 15th century): Poema de mio Cid, mester de juglaria, Libro de buen amor, mester de clerecia, El conde Lucanor, La Celestina, etc. Graduate students may not enroll

**Requisites:** SPANISH 223 and 224.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**SPANISH 417 – LITERATURA DEL SIGLO DE ORO**

3-4 credits.

A monograph on a particular author, work, or literary genre of the Golden Age: Cervantes, Lope de Vega, La Celestina, the picaresque novel, etc. For undergraduates only.

**Requisites:** SPANISH 223 and SPANISH 224

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**SPANISH/FRENCH/ITALIAN/PORTUG 429 – INTRODUCTION TO THE ROMANCE LANGUAGES**

3 credits.

Introduction to structural similarities and differences apparent in major Romance languages (French, Italian, Portuguese, Spanish) and to their historical developments, with reference to basic linguistic features of each language: phonology, morphology, syntax, and lexicon. Does not count towards French major.

**Requisites:** Span 226 or PORTUG 226 or FRENCH 228 or Ital 311, or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SPANISH 435 – CERVANTES**

3 credits.

Development of Cervantes as a craftsman and thinker; linguistic and philosophical commentaries on Don Quixote and significant major works.

**Requisites:** SPANISH 223 and SPANISH 224

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SPANISH/ENVIR ST 445 – CULTURE AND THE ENVIRONMENT IN THE LUSO-HISPANIC WORLD**

3 credits.

Investigates how economy and culture work together, consuming and/or restoring their environments in divergent scenarios of the Hispanic World.

**Requisites:** SPANISH 223 and 224

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**SPANISH 446 – TOPICS IN SPANISH LINGUISTICS**

3 credits.

Advanced descriptive, historical, or applied topics in Spanish linguistics.

**Requisites:** SPANISH 320

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SPANISH 451 – LITERATURE OF THE EIGHTEENTH AND NINETEENTH CENTURIES**

3 credits.

Historical survey of the literature of the eighteenth and nineteenth centuries. Major authors and representative works in all genres covering Neo-Classicism, Romanticism, Realism, and Naturalism. Important currents in intellectual history.

**Requisites:** SPANISH 223 224

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SPANISH 453 – LITERATURE OF THE TWENTIETH CENTURY**

3 credits.

Historical survey of the literature of the Twentieth Century. Major authors and representative works in all genres beginning with the Generation of 1898 to the present. Important currents in intellectual history.

**Requisites:** SPANISH 223 and SPANISH 224

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SPANISH/CHICLA 459 – MEXICO IN THE CHICANO AND CHICANA LITERARY IMAGINATION**

3 credits.

Focuses on analyzing the representations of Mexico in the literary works of Chicano and Chicana writers through out the twentieth century, and the function such representations play in their construction of identity, subjectivity, and community. This course will be offered in Spanish.

**Requisites:** SPANISH 223 and SPANISH 224

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2008

**SPANISH 460 – LITERATURA HISPANOAMERICANA**

3 credits.

A monograph on a particular author, work or literary current of Latin America: Modernismo, the novel of protest, the Latin American theater, etc. For undergraduates only.

**Requisites:** SPANISH 223 and SPANISH 224

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SPANISH 461 – THE SPANISH AMERICAN SHORT STORY**

3 credits.

Development of the short story throughout Spanish America from its origins in the 19th century to the present.

**Requisites:** SPANISH 223 224

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH 462 – SPANISH AMERICAN THEATER AND DRAMA**

3 credits.

Major dramatic writers in Spanish America from Sor Juana Ines de la Cruz to contemporary practitioners of avant-garde theater.

**Requisites:** SPANISH 223 224

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SPANISH 463 – THE SPANISH AMERICAN NOVEL**

3 credits.

Development of the novel throughout Spanish America from its origins in the 19th century to the new narrative of recent decades.

**Requisites:** SPANISH 223 224

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**SPANISH 464 – SPANISH AMERICAN POETRY AND ESSAY**

3 credits.

Readings in the work of major Spanish American poets and essayists within a historical framework.

**Requisites:** SPANISH 223 and SPANISH 224

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SPANISH 465 – LITERATURE AND FILM IN SPANISH AMERICA**

3 credits.

Films and literary works from Spanish America. The interaction of literature and cinema.

**Requisites:** SPANISH 223 and SPANISH 224

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**SPANISH 466 – TOPICS IN SPANISH AMERICAN LITERATURE**

1 credit.

Intensive study of an important author or theme in Spanish American literature. Content will vary with each offering.

**Requisites:** SPANISH 223 224

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SPANISH/CHICLA 467 – US LATINO LITERATURE**

3 credits.

Study of the literature of Latinos and Latinas in the United States. It will concentrate on analyzing the representation of their experience in this country, as well as the linguistic, cultural and formal singularity of their literature. This course will trace the development of Hispanic/Latino literature, its trends, the incorporation of newer Latino and Latina migrant communities in the US, question how it is defined, and address various issues concerning its poetics and present state. It will explore the intersectionality of ethnicity, class, gender, migration, sexuality, and literary forms.

**Requisites:** SPANISH 223 and SPANISH 224

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH 468 – TOPICS IN HISPANIC CULTURE**

3 credits.

This course is designed for an in-depth study of important cultural-historical issues concerning the Hispanic world.

**Requisites:** SPANISH 223 224; prev crse in Span or Span Amer culture/civ recommended

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SPANISH/CHICLA 469 – TOPICS IN HISPANIC CULTURES IN THE U.S.**

3 credits.

Focuses on the cultural evolution of Chicanos, Puerto Rican or Cuban-Americans in relation to their countries of origin. Topics vary.

**Requisites:** SPANISH 223 224 or (SPANISH 361, 363, or 468)

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SPANISH 470 – UNDERGRADUATE SEMINARS IN HISPANIC LITERATURE/CULTURE/LINGUISTICS**

3 credits.

This seminar is designed for the most advanced undergraduates in Spanish. Students must be able to work within the seminar format, studying independently and contributing fully in the weekly meetings.

Smrs in linguistics: Span 320 or cons inst

**Requisites:** Smrs in lit /or culture: Sr st.

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SPANISH 471 – TOPICS IN HISPANIC LITERATURE**

3 credits.

A consideration of Hispanic literary trends especially in their transoceanic or global dimensions.

**Requisites:** SPANISH 223 224

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2010



**SPANISH 472 – HISPANIC SCREEN STUDIES**

3 credits.

An introduction to audiovisual media in the Spanish-speaking world. Semester topics may include cinema, television, video and video gaming. Students will learn basic technical vocabulary, analytical concepts and industrial history for specific media and consider theoretical issues relating to the integration of those media in various local cultures. Special attention will be paid to the economic, technological, social and political conditions that have determined the differential development of the various screen arts in Spanish-speaking countries.

**Requisites:** SPANISH 223, 224 and 311

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH 473 – STUDY ABROAD IN SPANISH LANGUAGE PRACTICE**

1-4 credits.

Treatment of a topic in Spanish language in a course carried with a UW-Madison resident study abroad program that has no equivalent on this campus.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SPANISH 474 – STUDY ABROAD IN SPANISH LINGUISTICS**

1-4 credits.

Treatment of a topic in Spanish linguistics in a course carried with a UW-Madison resident study abroad program that has no equivalent on this campus.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SPANISH 475 – STUDY ABROAD IN HISPANIC LITERATURES**

1-4 credits.

Treatment of a topic in Hispanic literatures in a course carried with a UW-Madison resident study abroad program that has no equivalent on this campus.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SPANISH 476 – STUDY ABROAD IN HISPANIC CULTURES**

1-4 credits.

Treatment of a topic in Hispanic cultures in a course carried with a UW-Madison resident study abroad program that has no equivalent on this campus.

**Requisites:** Enrollment in a UW-Madison resident study abroad program

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**SPANISH 501 – SURVEY OF SPANISH AMERICAN LITERATURE FROM THE DISCOVERY TO MODERNISMO**

3 credits.

Introduction to the major trends and genres of Spanish American literature, from the Discovery to Modernismo.

**Requisites:** Graduate or professional standing

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**SPANISH 502 – SURVEY OF SPANISH AMERICAN LITERATURE FROM MODERNISMO TO THE PRESENT**

3 credits.

Introduction to the major trends and genres of Spanish American literature, from Modernismo to the present.

**Requisites:** Grad st

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**SPANISH/MEDIEVAL 503 – SURVEY OF MEDIEVAL LITERATURE**

3 credits.

Readings of texts, lexicography, and history.

**Requisites:** Graduate or professional standing

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016



**SPANISH/MEDIEVAL 504 – SURVEY OF MEDIEVAL LITERATURE**

3 credits.

Continuation of 503.

**Requisites:** Graduate or professional standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**SPANISH 505 – ADVANCED SURVEY OF SPANISH LITERATURE**

3 credits.

**Requisites:** Graduate standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**SPANISH 506 – ADVANCED SURVEY OF SPANISH LITERATURE**

3 credits.

**Requisites:** Graduate standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**SPANISH/MEDIEVAL 541 – OLD SPANISH**

3 credits.

Historical Spanish phonology, morphology, and syntax, with application to analysis of medieval Spanish texts. Some attention to paleographic and editorial problems.

**Requisites:** Graduate or professional standing**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**SPANISH 543 – SPANISH PHONOLOGY**

3 credits.

Introduction to synchronic and diachronic Spanish phonology.

**Requisites:** Graduate standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**SPANISH 544 – CONTEMPORARY ISSUES IN APPLIED SPANISH LINGUISTICS**

3 credits.

Linguistic concepts, theories and research methodologies as they are applied to Spanish teaching methodology, bilingualism, and L2 acquisition of Spanish.

**Requisites:** Graduate standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**SPANISH 545 – COLLEGE TEACHING OF SPANISH**

2 credits.

Introduction to Spanish teaching methodology: classroom procedures, lesson planning, drilling techniques, preparation and evaluation of testing devices, current trends in language teaching, audio-visual aids, review of key grammatical concepts, etc. Does not count towards requirements in College of LS

**Requisites:** Teaching assistant status in Spanish or Portug or cons inst.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**SPANISH 548 – STRUCTURE OF THE SPANISH LANGUAGE: MORPHOLOGY AND SYNTAX**

3 credits.

Basic concepts of morphosyntactic theory applied to Spanish.

**Requisites:** Graduate standing**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SPANISH 564 – THEORY AND PRACTICE OF HISPANIC THEATRE**

4 credits.

We will study contemporary Hispanic theatre through both the literary text and performance. This class will be divided into two parts: 1) analysis and discussion of texts; 2) performance and staging of plays. The end project is a full-length live performance in Spanish.

**Requisites:** SPANISH 223 224**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015

**SPANISH 627 – HISTORIA DE TEORIA LITERARIA: DE PLATON AL SIGLO XVIII**

3 credits.

Historical survey of major currents of literary theory in Europe, beginning with Plato and ending with Neo-classicism.

**Requisites:** Graduate or professional standing

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SPANISH 628 – HISTORIA DE TEORIA LITERARIA: SIGLOS XIX-XX**

3 credits.

Modern literary theories with special attention to Hispanic literatures.

**Requisites:** Graduate or professional standing

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**SPANISH 630 – TOPICS IN HISPANIC LINGUISTICS**

3 credits.

**Requisites:** Graduate standing

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SPANISH 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**SPANISH 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SPANISH 691 – FIRST SEMESTER SENIOR THESIS**

3 credits.

First semester independent study with the goal to do the preliminary research to write a senior thesis in Spanish. Consent of instructor

**Requisites:** Senior Standing.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**SPANISH 692 – SECOND SEMESTER SENIOR THESIS**

3 credits.

Second semester independent study with the goal to complete a senior thesis in Spanish.

**Requisites:** Senior standing, consent of instructor, SPANISH 691

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**SPANISH 699 – DIRECTED STUDY**

1-6 credits.

**Requisites:** Jr or Sr st; graded on a lettered basis; requires cons of chair and instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SPANISH 701 – TEXTUAL CRITICISM**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SPANISH 712 – SPECIAL TOPICS: ADVANCED PLACEMENT SEMINAR**

1-3 credits.

Planning course outlines and materials designed to help students prepare for the AP exam in Spanish language and/or literature. Consideration of the format of the AP exam(s) and of the particular objectives in the four language skills.

**Requisites:** HS teacher currently teaching or expecting to teach adv crses for stdts who may take AP exam in Spanish lang and/or lit

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2009

**SPANISH 715 – TOPICS IN HISPANIC CULTURAL STUDIES**

3 credits.

A course for graduate students focusing on the study of culture in the context of Hispanic studies.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**SPANISH 716 – TOPICS IN SPANISH AMERICAN LITERATURE**

3 credits.

An advanced topics course focusing on major issues in Spanish American literary and/or intellectual history.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2010**SPANISH/MEDIEVAL 718 – TOPICS IN MEDIEVAL SPANISH LITERATURE**

3 credits.

An advanced topics course focusing on themes, particular authors, individual works, or literary genres in medieval Spanish literature.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012**SPANISH 801 – SEMINAR-SPANISH AMERICAN LITERATURE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**SPANISH 802 – SEMINAR-SPANISH AMERICAN LITERATURE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SPANISH 813 – SEMINAR-HISTORICAL SPANISH SYNTAX AND LEXICOGRAPHY**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2010**SPANISH 815 – SEMINAR IN LANGUAGE: MODERN SPANISH**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**SPANISH/FRENCH/ITALIAN/PORTUG 817 – ROMANCE PHILOLOGY**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**SPANISH 830 – SEMINAR: THE SPANISH GRAMMATICAL TRADITION**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2008**SPANISH 831 – SEMINAR: HISPANIC DIALECTOLOGY**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**SPANISH/MEDIEVAL 841 – SEMINAR: LIBRO DE BUEN AMOR, CELESTINA, CORBACHO**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2010**SPANISH/MEDIEVAL 842 – SEMINAR-MEDIEVAL LITERATURE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SPANISH 850 – SEMINAR IN GOLDEN AGE DRAMA**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**SPANISH 851 – SEMINAR IN GOLDEN AGE PROSE: CERVANTES DON QUIJOTE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016

**SPANISH 852 – SEMINAR IN GOLDEN AGE PROSE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**SPANISH 853 – SEMINAR IN GOLDEN AGE POETRY**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2014**SPANISH 861 – SEMINAR-MODERN SPANISH LITERATURE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SPANISH 862 – SEMINAR-MODERN SPANISH LITERATURE**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**SPANISH 882 – SEMINAR IN HISPANIC CULTURE**

3 credits.

Seminar focusing on literary, cultural and/or theoretical topics relevant to Spanish and/or Spanish-American culture. Taught in English.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**SPANISH 899 – INDEPENDENT READING**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SPANISH/A A E/ANTHRO/C&E SOC/GEOG/HISTORY/LACIS/POLI SCI/PORTUG/SOC 982 – INTERDEPARTMENTAL SEMINAR IN THE LATIN-AMERICAN AREA**

1-3 credits.

Interdisciplinary inquiry in Latin American society and culture.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SPANISH 990 – THESIS**

1-12 credits.

Credit commensurate with work accomplished.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017

## STATISTICS (STAT)

**STAT 224 – INTRODUCTORY STATISTICS FOR ENGINEERS**

3 credits.

2nd Sem Fr St. Stdts may receive degree cr for no more than one of the following: Stat 201, 224, and 301

**Requisites:** MATH 221.**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Natural Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**STAT 301 – INTRODUCTION TO STATISTICAL METHODS**

3 credits.

Distributions, measures of central tendency, dispersion and shape, the normal distribution; experiments to compare means, standard errors, confidence intervals; effects of departure from assumption; method of least squares, regression, correlation, assumptions and limitations; basic ideas of experimental design. Not open to students who have completed STAT 201, 224, 324, or 371

**Requisites:** Satisfied Quantitative Reasoning (QR) A requirement.**Course Designation:** Gen Ed - Quantitative Reasoning Part B Breadth - Natural Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**STAT 302 – ACCELERATED INTRODUCTION TO STATISTICAL METHODS**  
3 credits.

Graphical and numerical exploration of data; standard errors; distributions for statistical models including binomial, Poisson, normal; estimation; hypothesis testing; randomization tests; basic principles of experimental design; regression; ANOVA; categorical data analysis; goodness of fit; application. (intended for students wishing to take additional statistics courses).

**Requisites:** Satisfied Quantitative Reasoning (QR) A requirement and MATH 221 or equivalent

**Course Designation:** Gen Ed - Quantitative Reasoning Part B  
Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT/MATH 309 – INTRODUCTION TO PROBABILITY AND MATHEMATICAL STATISTICS I**  
3 credits.

Probability and combinatorial methods, discrete and continuous, univariate and multivariate distributions, expected values, moments, normal distribution and derived distributions, estimation.

**Requisites:** MATH 234 or concurrent enrollment; not open to students who have taken MATH/STAT/MATH 431 or STAT 311

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT/MATH 310 – INTRODUCTION TO PROBABILITY AND MATHEMATICAL STATISTICS II**  
3 credits.

This course in mathematical statistical inference aims at providing an understanding of likelihood's central role to statistical inference, using the language of mathematical statistics to analyze statistical procedures, and using the computer as a tool for understanding statistics. Specific topics include: samples and populations, estimation, hypothesis testing, and theoretical properties of statistical inference.

**Requisites:** (MATH/STAT/MATH 309, STAT 311, or MATH/STAT/MATH 431) and (STAT 224, STAT 301, STAT 302, STAT 324, STAT 371, or ECON 310); or graduate standing

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT 311 – INTRODUCTION TO THEORY AND METHODS OF MATHEMATICAL STATISTICS I**  
3 credits.

Elements of probability, important discrete distributions, acceptance sampling by attributes, sample characteristics, probability distributions and population characteristics, the normal distribution, acceptance sampling plans based on sample means and variances, sampling from the normal, the central limit theorem, point and interval estimation.

**Requisites:** MATH 234 or concurrent enrollment; not open to students who have taken MATH/STAT/MATH 309 or MATH/STAT/MATH 431

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT 312 – INTRODUCTION TO THEORY AND METHODS OF MATHEMATICAL STATISTICS II**  
3 credits.

Unbiased estimation, maximum likelihood estimation, confidence intervals, tests of hypotheses, Neyman-Pearson lemma, likelihood ratio test, regression, analysis of variance with applications.

**Requisites:** MATH/STAT/MATH 309, STAT 311, MATH/STAT/MATH 431, or graduate standing

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT 324 – INTRODUCTORY APPLIED STATISTICS FOR ENGINEERS**  
3 credits.

Descriptive statistics, probability concepts and distributions, random variables. Hypothesis tests and confidence intervals for one- and two-sample problems. Linear regression, model checking, and inference. Analysis of variance and basic ideas in experimental design. Not open to students who have completed STAT 224 or 371

**Requisites:** MATH 222 or 276.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT 327 – LEARNING A STATISTICAL LANGUAGE**  
1 credit.

This modular course is aimed at providing students with an understanding of commonly used statistical languages. (Two such languages commonly used in our Department – and others – are R and SAS.) Modules will be offered at the introductory, intermediate and advanced levels. (Also, students may not receive credit twice for the same language at the same level.)

**Requisites:** Any introductory stat course (224, 301, 302, 324, 371) for all modules; additional prerequisites will vary by topic

**Course Designation:** Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017



**STAT 333 – APPLIED REGRESSION ANALYSIS**

3 credits.

An introduction to regression with emphasis on the practical aspects. Topics include: straight-line model, role of assumptions, residual analysis, transformations, multiple regression (with some use of matrix notation), multicollinearity, subset selection, and a brief introduction to mixed models.

**Requisites:** An introductory statistics course (STAT 224 or STAT 301 or STAT 302 or STAT 324 or STAT 371) and STAT 327 (STAT 327 may be taken concurrently)

**Course Designation:** Gen Ed - Quantitative Reasoning Part B  
Breadth - Natural Science  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT 349 – INTRODUCTION TO TIME SERIES**

3 credits.

Autocorrelation; stationarity and non-stationarity; heteroscedasticity; dynamic models; auto-regressive and moving average models; identification and fitting; forecasting; seasonal adjustment; applications for financial time series, social sciences and environmental studies.

**Requisites:** STAT 333

**Course Designation:** Breadth - Natural Science  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**STAT 351 – INTRODUCTORY NONPARAMETRIC STATISTICS**

3 credits.

Distribution free statistical procedures or methods valid under nonrestrictive assumptions: basic tools; counting methods; order statistics, ranks, empirical distribution functions; distribution free tests and associated interval and point estimators; sign test; signed rank tests; rank tests; Mann Whitney Wilcoxon procedures; Kolmogorov Smirnov tests; permutation methods; kernel density estimation; kernel and spline regression estimation; computer techniques and programs; discussion and comparison with parametric methods.

**Requisites:** STAT 333

**Course Designation:** Breadth - Natural Science  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**STAT 360 – TOPICS IN STATISTICS STUDY ABROAD**

1-3 credits.

Credit is awarded for students having completed an advanced statistics course in a study abroad program for which there is no direct equivalence to the statistics department course offerings. The study abroad course must be pre-approved by the statistics department.

**Requisites:** None

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**STAT 371 – INTRODUCTORY APPLIED STATISTICS FOR THE LIFE SCIENCES**

3 credits.

The course will provide students in the life sciences with an introduction to modern statistical practice. Topics include: exploratory data analysis, probability and random variables; one-sample testing and confidence intervals, role of assumptions, sample size determination, two-sample inference; basic ideas in experimental design, analysis of variance, linear regression, goodness-of fit; biological applications. Not open to students who have completed STAT 224 or 324

**Requisites:** MATH 112 and 113, 114, or 171.

**Course Designation:** Gen Ed - Quantitative Reasoning Part B  
Breadth - Natural Science  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT 411 – AN INTRODUCTION TO SAMPLE SURVEY THEORY AND METHODS**

3 credits.

An introduction to the methods used to design sample surveys and analyze the results. Topics covered include: basic tools, simple random sampling, ratio and regression estimation, stratification, systematic sampling, cluster (area) sampling, two-stage sampling, unequal probability sampling, non-sampling errors, and missing data. For illustration and clarification, examples are drawn from diverse areas of application.

**Requisites:** STAT 333

**Course Designation:** Breadth - Natural Science  
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**STAT 421 – APPLIED CATEGORICAL DATA ANALYSIS**

3 credits.

Analysis of multidimensional contingency tables, Poisson regression, and logistic regression, with emphasis on practical applications. Use of computer programs for such analyses. Model selection, testing goodness of fit, estimation of parameters, measures of association and methods for detecting sources of significance.

**Requisites:** STAT 333 or graduate standing

**Course Designation:** Breadth - Natural Science  
Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**STAT/M E 424 – STATISTICAL EXPERIMENTAL DESIGN**

3 credits.

This course provides a systematic introduction to statistical design and analysis of experiments. Topics include: principles of randomization, blocking and replication, randomized blocking designs, Latin square designs, full factorial and fractional factorial designs and response surface methodology. Substantial focus will be devoted to engineering applications.

**Requisites:** An introductory statistics course (STAT 224 or STAT 301 or STAT 302 or STAT 324 or STAT 371)

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT/MATH 431 – INTRODUCTION TO THE THEORY OF PROBABILITY**

3 credits.

Topics covered include axioms of probability, random variables, the most important discrete and continuous probability distributions, expectation and variance, moment generating functions, conditional probability and conditional expectations, multivariate distributions, Markov's and Chebyshev's inequalities, laws of large numbers, and the central limit theorem.

**Requisites:** MATH 234 or 376

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT 441 – INTRODUCTION TO BIostatISTICS FOR PHARMACY**

3 credits.

Introduction to statistical methods used in pharmaceutical and related biomedical applications. Topics include exploratory data analysis of random samples, theory of probability and population reference distributions, statistical inference and hypothesis testing, regression methods, and survival analysis techniques. D. prgm

**Requisites:** Admission to School of Pharmacy, Pharm.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**STAT 456 – APPLIED MULTIVARIATE ANALYSIS**

3 credits.

Theory and applications of multivariate statistical methods. Basic concepts and statistical reasoning which underlie the techniques of multivariate analysis. Ideas rather than derivations stressed although basic models discussed to give the student some feeling for their adequacy in particular situations. Acquaintance with and use of existing computer programs in the multivariate analysis area.

**Requisites:** STAT 333 and a course in linear algebra (MATH 340 or MATH 341 or MATH 375)

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT 461 – FINANCIAL STATISTICS**

3 credits.

Stochastic models and statistical methodologies are widely employed in modern finance. The models and their inferences are very important for academic research and financial practices. This course will cover the financial stochastic models and their statistical inferences with applications to volatility analysis and risk management. It will introduce discrete models such as binomial trees and GARCH and stochastic volatility models as well as simple continuous models like the Black-Scholes model. The main focus of the course will be on statistical inference, data analysis and risk management regarding these models.

**Requisites:** STAT 333 or ECON 410 and one of STAT/MATH 309 or STAT 311 or MATH/STAT 431

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT/COMP SCI 471 – INTRODUCTION TO COMPUTATIONAL STATISTICS**

3 credits.

Classical statistical procedures arise where closed-form mathematical expressions are available for various inference summaries (e.g. linear regression; analysis of variance). A major emphasis of modern statistics is the development of inference principles in cases where both more complex data structures are involved and where more elaborate computations are required. Topics from numerical linear algebra, optimization, Monte Carlo (including Markov chain Monte Carlo), and graph theory are developed, especially as they relate to statistical inference (e.g., bootstrapping, permutation, Bayesian inference, EM algorithm, multivariate analysis).

**Requisites:** (MATH/STAT/MATH 310 and STAT 333) or graduate or professional standing

**Course Designation:** Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**STAT/COMP SCI/MATH 475 – INTRODUCTION TO COMBINATORICS**

3 credits.

Problems of enumeration, distribution, and arrangement. Inclusion-exclusion principle. Generating functions and linear recurrence relations. Combinatorial identities. Graph coloring problems. Finite designs. Systems of distinct representatives and matching problems in graphs. Potential applications in the social, biological, and physical sciences. Puzzles. Problem solving.

**Requisites:** (MATH 320, 340, 341, or 375) or graduate or professional standing

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT 479 – SPECIAL TOPICS IN STATISTICS**

1-3 credits.

This course will be used for curricular offerings for topics of interest to undergraduates. It will be offered as the need arises.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**STAT/B M I 511 – INTRODUCTION TO BIOSTATISTICAL METHODS FOR PUBLIC HEALTH**

3 credits.

Provides breadth in biostatistical methods for public health practitioners. Topics will include research design, data collection methods and database management, statistical computing and programming, descriptive statistics in tables and graphics, introductory statistical methods, and survey sampling. Not open to students who have taken BMI/STAT/B M I 541 or BMI/POP HLTH/B M I 551

**Requisites:** Declared in the Master of Public Health (MPH) program.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT/COMP SCI/I SY E/MATH 525 – LINEAR PROGRAMMING METHODS**

3 credits.

Real linear algebra over polyhedral cones; theorems of the alternative for matrices. Formulation of linear programs. Duality theory and solvability. The simplex method and related methods for efficient computer solution. Perturbation and sensitivity analysis. Applications and extensions, such as game theory, linear economic models, and quadratic programming.

**Requisites:** (MATH 320, 340, 341, 375, or 443) or graduate or professional standing

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT/B M I 541 – INTRODUCTION TO BIOSTATISTICS**

3 credits.

Course designed for the biomedical researcher. Topics include: descriptive statistics, hypothesis testing, estimation, confidence intervals, t-tests, chi-squared tests, analysis of variance, linear regression, correlation, nonparametric tests, survival analysis and odds ratio. Biomedical applications used for each topic. Students may not enroll if they have completed BMI 511 or BMI 551.

**Requisites:** Graduate standing.

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT/B M I 542 – INTRODUCTION TO CLINICAL TRIALS I**

3 credits.

Intended for biomedical researchers interested in the design and analysis of clinical trials. Topics include definition of hypotheses, measures of effectiveness, sample size, randomization, data collection and monitoring, and issues in statistical analysis. Statistics graduate students should take STAT/B M I 641.

**Requisites:** STAT/B M I 541 or equiv or cons inst

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**STAT/B M I 546 – PRACTICUM IN CLINICAL TRIAL DATA ANALYSIS AND INTERPRETATION**

3 credits.

Provides practice in analysis and interpretation of existing datasets from national and international clinical trials in a variety of diseases. Students will develop a research question, review clinical protocols, and analyze available data to prepare a report.

**Requisites:** STAT/B M I 541 or 572 STAT/B M I 542 or 641

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2015

**STAT/F&W ECOL/HORT 571 – STATISTICAL METHODS FOR BIOSCIENCE I**

4 credits.

Descriptive statistics, distributions, one- and two-sample normal inference, power, one-way ANOVA, simple linear regression, categorical data, non-parametric methods; underlying assumptions and diagnostic work.

**Requisites:** College algebra: Grad st or cons inst

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT/F&W ECOL/HORT 572 – STATISTICAL METHODS FOR BIOSCIENCE II**

4 credits.

Continuation of Forestry 571. Polynomial regression, multiple regression, two-way ANOVA with and without interaction, split-plot design, subsampling, analysis of covariance, elementary sampling, introduction to bioassay.

**Requisites:** Stats/Forestry/HORT/F&W ECOL/STAT 571

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**STAT 575 – STATISTICAL METHODS FOR SPATIAL DATA**

3 credits.

Detecting and quantifying spatial patterns and modeling in the presence of such patterns. Spatial Point Patterns: testing nonrandomness, simulating and characterizing patterns. Lattice Data: spatial autocorrelation and regression. Geostatistics: variograms, ordinary and universal kriging, inference, assessing assumptions, and extensions.

**Requisites:** STAT 333 424; or Stat/Forest/HORT/F&W ECOL/STAT 572; or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**STAT 601 – STATISTICAL METHODS I**

4 credits.

Together with STAT 602, this course is to provide graduate students in statistics and related quantitative fields with a thorough grounding in modern statistical methods. The specific learning outcomes for the course are to understand data collection in context (how/why data were collected, key questions under study); explore data by effective graphical and numerical summaries; understand probability concepts and models as tools for studying random phenomena and for statistical inference; analyze data using appropriate, modern statistical models, methods, and software; understand the statistical concepts underlying methods; develop the ability to interpret results and critically evaluate the methods used; communicate data analysis and key findings in context. This course will assume students have had at least one semester of calculus and one semester of linear algebra.

**Requisites:** Graduate standing

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT 602 – STATISTICAL METHODS II**

4 credits.

Together with STAT 601, this course is to provide graduate students in statistics and related quantitative fields with a thorough grounding in modern statistical methods. The specific learning outcomes for the course are to understand data collection in context (how/why data were collected, key questions under study); explore data by effective graphical and numerical summaries; understand probability concepts and models as tools for studying random phenomena and for statistical inference; analyze data using appropriate, modern statistical models, methods, and software; understand the statistical concepts underlying methods; develop the ability to interpret results and critically evaluate the methods used; communicate data analysis and key findings in context.

**Requisites:** STAT 601

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**STAT 609 – MATHEMATICAL STATISTICS I**

3 credits.

Review of probability, random variables and vectors and their distributions, moments and inequalities, generating functions, transformations of random variables, sampling and distribution theory, convergence concepts for sequences of random variables, laws of large numbers, central limit and other limit theorems.

**Requisites:** STAT/MATH 309 or 431, MATH 340, MATH 521, or equiv or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**STAT 610 – INTRODUCTION TO STATISTICAL INFERENCE**

4 credits.

Conditioning, distribution theory, approximation to distributions, modes of convergence, limit theorems, statistical models, parameter estimation, comparison of estimators, confidence sets, theory of hypothesis tests, introduction to Bayesian inference and nonparametric estimation.

**Requisites:** STAT/MATH 309 or STAT/MATH 431, MATH 521, MATH 340 or equiv or cons inst

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**STAT 627 – PROFESSIONAL SKILLS IN DATA SCIENCE**

1-3 credits.

This topics course is aimed at providing statistics graduate students with an understanding of and experience with important aspects of professional development in statistics, including skills with internet tools, sophisticated use of statistical languages (such as R) and other emerging topics.

**Requisites:** Graduate student in Statistics

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**STAT 628 – DATA SCIENCE PRACTICUM**

1-3 credits.

This course is aimed at providing graduate students with an understanding of and experience with turning statistics concepts into practice through data science practicums inspired by realistic projects. Students will combine theory and methods expertise with communications skills to translate from a vaguely stated project description and complex data set into a concisely summarized analysis, including both written and graphical interpretation that can be used by decision makers in an organization.

**Requisites:** Graduate student in Statistics

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**STAT/ I SY E/MATH/OTM 632 – INTRODUCTION TO STOCHASTIC PROCESSES**

3 credits.

Topics include discrete-time Markov chains, Poisson point processes, continuous-time Markov chains, and renewal processes. Applications to queueing, branching, and other models in science, engineering and business.

**Requisites:** MATH 531 or (MATH/STAT/MATH 431, MATH/STAT/MATH 309 or STAT 311) and (MATH 320, 340, 341, 375, or 421) or graduate standing

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT/B M I 641 – STATISTICAL METHODS FOR CLINICAL TRIALS**

3 credits.

Statistical issues in the design of clinical trials, basic survival analysis, data collection and sequential monitoring. Intended for statistics graduate students; those with medical backgrounds should take STAT/B M I 542.

**Requisites:** Math/STAT/MATH 310 or equiv or cons inst

**Course Designation:** Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**STAT/B M I 642 – STATISTICAL METHODS FOR EPIDEMIOLOGY**

3 credits.

Methods for analysis of case-control, cross sectional, and cohort studies. Covers epidemiologic study design, measures of association, rates, classical contingency table methods, and logistic and Poisson regression.

**Requisites:** Statistics 310 or equivalent or consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT 679 – SPECIAL TOPICS IN STATISTICS**

1-3 credits.

Special topics in statistics at the master's level. Subject matter varies.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**STAT 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

**STAT 698 – DIRECTED STUDY**

1-6 credits.

**Requisites:** Graded on a Cr/N basis; requires cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**STAT 699 – DIRECTED STUDY**

1-6 credits.

**Requisites:** Graded on a lettered basis; requires cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**STAT 701 – APPLIED TIME SERIES ANALYSIS, FORECASTING AND CONTROL I**

3 credits.

Theory and application of discrete time series models illustrated with forecasting problems. Principles of iterative model building. Representation of dynamic relations by difference equations. Autoregressive integrated Moving Average models. Identification, fitting, diagnostic checking of models. Seasonal model application to forecasting in business, economics, ecology, and engineering used at each stage, which the student analyzes using computer programs which have been specially written and extensively tested.

**Requisites:** STAT/MATH 310 or equiv

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT/MATH 709 – MATHEMATICAL STATISTICS**

4 credits.

Introduction to measure theoretic probability; derivation and transformation of probability distributions; generating functions and characteristic functions; conditional expectation, sufficiency, and unbiased estimation; methods of large sample theory including laws of large numbers and central limit theorems; order statistics.

**Requisites:** Cons inst or one yr adv calculus and Math, STAT/MATH 431, Math, STAT/MATH 310

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT/MATH 710 – MATHEMATICAL STATISTICS**

4 credits.

Estimation, efficiency, Neyman-Pearson theory of hypothesis testing, confidence regions, decision theory, analysis of variance, and distribution of quadratic forms.

**Requisites:** Stat, MATH/STAT 709

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**STAT/COMP SCI/I SY E/MATH 726 – NONLINEAR OPTIMIZATION I**

3 credits.

Theory and algorithms for nonlinear optimization, focusing on unconstrained optimization. Line-search and trust-region methods; quasi-Newton methods; conjugate-gradient and limited-memory methods for large-scale problems; derivative-free optimization; algorithms for least-squares problems and nonlinear equations; gradient projection algorithms for bound-constrained problems; and simple penalty methods for nonlinearly constrained optimization. Students are strongly encouraged to have knowledge of linear algebra (e.g. MATH 320, MATH 433) and familiarity with basic mathematical analysis.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**STAT 732 – LARGE SAMPLE THEORY OF STATISTICAL INFERENCE**

3 credits.

Stochastic modes of convergence. Asymptotic theory of normed sums of random variables with applications to asymptotic normality of estimators. Methods for deriving limit distributions of nonlinear statistics. Asymptotic relative efficiencies. Asymptotic confidence regions and tests of hypotheses. Models of non-identically distributed or dependent random variables.

**Requisites:** Either STAT/MATH 709, 731, or 831 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2012

**STAT/MATH 733 – THEORY OF PROBABILITY I**

3 credits.

An introduction to measure theoretic probability and stochastic processes. Topics include foundations, independence, zero-one laws, laws of large numbers, convergence in distribution, characteristic functions, central limit theorems, random walks, conditional expectations.

**Requisites:** MATH 629, 721, or concurrent registration in 721, or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**STAT/MATH 734 – THEORY OF PROBABILITY II**

3 credits.

Continuation of 831. Possible topics include martingales, weak convergence of measures, introduction to Brownian motion.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**STAT/B M I 741 – SURVIVAL ANALYSIS THEORY AND METHODS**

3 credits.

Theory and practice of analytic methods for censored survival data, including nonparametric and parametric methods, the proportional hazards regression model, and a review of current topics in survival analysis.

**Requisites:** STAT 610 or 710 or equivalent or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT 760 – MULTIVARIATE ANALYSIS I**

3 credits.

Multivariate normal distribution, estimation of mean and covariance matrix; Wishart distribution; distribution of partial and multiple correlation coefficients; Hotelling's  $T^2$ , principal components.

**Requisites:** Cons inst or STAT/MATH 710

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT 761 – DECISION TREES FOR MULTIVARIATE ANALYSIS**

3 credits.

Tree construction, including finding splits, tree-pruning and error estimation. Categorical predictor variables, missing or censored data, prior class-probabilities, and unequal misclassification costs. Selection bias. Comparison with other statistics and machine-learning methods. Extensions to piecewise linear and non-least squares regression models.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**STAT/B M I 768 – STATISTICAL METHODS FOR MEDICAL IMAGE ANALYSIS**

3 credits.

Introduce key statistical methods and concepts for analyzing various medical images. Analyze publicly available and student/instructor supplied imaging data using the most up-to-date methods and tools. Aimed at graduate student and researchers with strong quantitative background. The course is self-contained. The knowledge of calculus and linear algebra is needed

**Requisites:** Two semesters of statistics courses (STAT/MATH 309-310), or the consent of instructor.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2013

**STAT 771 – STATISTICAL COMPUTING**

3 credits.

The design of statistical software including special techniques for probability distributions, methods of simulation of random processes, numerical methods for linear models and multivariate analysis, and methods for nonlinear models.

**Requisites:** STAT 333 or equiv or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**STAT/ECON/GEN BUS 775 – INTRODUCTION TO BAYESIAN DECISION AND CONTROL I**

3 credits.

Common sampling models in business and economic problems, information from data, likelihood function of parameters, choices of models, Bayes' Theorem, subjective basis for probability, sequential nature of Bayesian inference, prior and posterior distributions of parameters in binomial, poisson, exponential and normal populations, comparison of two normal distributions, predictive distributions, decision theory, utility, risk aversion, extensive form of analysis, two-action problems, point estimation, best population problems, economics of sampling.

**Requisites:** MATH/STAT/MATH 309 or STAT 311

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**STAT/MATH 803 – EXPERIMENTAL DESIGN I**

3 credits.

Summary of matrix algebra required, theory of estimable functions, incomplete blocks, balanced incomplete block designs, partially balanced incomplete block designs.

**Requisites:** Stats 310 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**STAT 809 – NON PARAMETRIC STATISTICS**

3 credits.

Statistical procedures valid under unrestrictive assumptions; sign test; confidence intervals; efficiency comparisons; signed rank procedures; Walsh sums; point estimators; two sample rank tests; zeros, ties, and other problems of discrete data; order statistics; Winsorized and truncated point estimators and connection with gross error models; permutation procedures; combinatorial problems, and computer applications.

**Requisites:** STAT/MATH 710 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**STAT 811 – SAMPLE SURVEY THEORY AND METHOD**

3 credits.

Simple random sampling; systematic sampling; probability sampling; stratified sampling; subsampling with units of equal and unequal size; double sampling; multi-stage and multi-phase sampling; ratio and regression estimates; model-based and model-assisted approaches; variance estimation; non-response.

**Requisites:** Stats 610 or 710 or equiv

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**STAT/MATH 833 – TOPICS IN THE THEORY OF PROBABILITY**

3 credits.

Topics in probability and stochastic processes.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**STAT 834 – EMPIRICAL PROCESSES AND SEMIPARAMETRIC INFERENCE**

1-3 credits.

Empirical process methods in statistics; semiparametric models; stochastic convergence in metric spaces; Glivenko-Cantelli and Donsker theorems; entropy calculations; bootstrapped empirical processes; functional delta method; Z-estimators; M-estimators; rates of convergence; semiparametric efficiency; semiparametric estimating equations; nonparametric maximum likelihood.

**Requisites:** Math/STAT/MATH 710 or Math/Stat 832 or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2009



**STAT 840 – STATISTICAL MODEL BUILDING AND LEARNING**

3 credits.

Theory of reproducing kernel Hilbert spaces in statistical model building; bounded linear functionals and representer theory; smoothing splines; ANOVA spines; degrees of freedom for signal and the bias-variance tradeoff; Bayesian confidence intervals; model selection.

**Requisites:** STAT/MATH 710 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**STAT 841 – NONPARAMETRIC STATISTICS AND MACHINE LEARNING METHODS**

3 credits.

Statistical function estimation and classification; reproducing kernel machines, support vector machines; high dimensional model selection and estimation; Bayesian, empirical Bayesian interpretation of nonparametric learning methods; log density ANOVA and graphical models; tree ensemble methods including bagging, boosting, and random forest.

**Requisites:** STAT 840**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2015**STAT 849 – THEORY AND APPLICATION OF REGRESSION AND ANALYSIS OF VARIANCE I**

3 credits.

Theory and applications of the general linear model; graphical methods; simultaneous inference; regression diagnostics; analysis of variance of fixed, random and mixed effects models; ANCOVA: violations of assumptions.

**Requisites:** STAT/MATH 310, 312 or 314**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**STAT 850 – THEORY AND APPLICATION OF REGRESSION AND ANALYSIS OF VARIANCE II**

3 credits.

Theory and applications of the general linear model; graphical methods; simultaneous inference; regression diagnostics; analysis of variance of fixed, random and mixed effects models; ANCOVA: violations of assumptions.

**Requisites:** STAT 849**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**STAT 851 – GENERALIZED LINEAR MODELS**

3 credits.

Methods for developing, fitting and checking models beyond the classical linear model framework. Binary, ordinal and categorical models will be examined, as well as the non-Gaussian continuous case and more advanced topics.

**Requisites:** STAT 850 or con reg or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2008**STAT 860 – ESTIMATION OF FUNCTIONS FROM DATA**

3 credits.

Statistical and approximation theoretic methods of estimating functions and values of functionals from experimental data; experimental design and data analysis problems that arise as problems in approximation theory; convergence theorems; ill-posed inverse problems; Banach and Hilbert space penalty functionals.

**Requisites:** STAT/MATH 710 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**STAT/B M I 877 – STATISTICAL METHODS FOR MOLECULAR BIOLOGY**

3 credits.

Develop statistical problems in gene mapping, high throughputomic data analysis, phylogenetics and sequence analysis. Introduce ideas of key methods using published data. Statisticians learn statistical basis for research methodology. Collaboration among students and with biologists is encouraged through projects. GENETICS 466 or equiv strongly recommended

**Requisites:** STAT/MATH 309-310 or 609-610 or 709-710 or equiv, or cons inst.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**STAT 990 – RESEARCH**

1-12 credits.

Content varies.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**STAT 992 – SEMINAR**

1-3 credits.

Content varies.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017

**STAT 998 – STATISTICAL CONSULTING**

3 credits.

Consulting apprenticeship.

**Requisites:** 9 cr in statistics and cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**SURGERY (SURGERY)****SURGERY 699 – INDEPENDENT STUDY**

9 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SURGERY 799 – INDEPENDENT READING AND RESEARCH**

9 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**SURGERY 812 – THIRD YEAR SURGERY**

1-12 credits.

**Requisites:** 3rd yr Med School st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SURGERY 910 – INDEPENDENT READING AND RESEARCH FOR FOURTH YEAR MEDICAL STUDENTS**

1-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SURGERY 919 – INDIVIDUALIZED FOURTH YEAR CLINICAL CLERKSHIP**

1-12 credits.

Individually arranged fourth year clinical clerkships. (Student must have Fourth Year Committee approval to count for fourth year credit.)

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SURGERY 920 – GENERAL SURGERY CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SURGERY 921 – GENERAL SURGERY CLERKSHIP-MERITER**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**SURGERY 923 – GENERAL SURGERY CLERKSHIP-ST. MARY'S**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2013**SURGERY 924 – GENERAL SURGERY CLERKSHIP-LACROSSE**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SURGERY 925 – GENERAL SURGERY CLERKSHIP-MARSHFIELD**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SURGERY 926 – SURGERY FOR THE NON-SURGEON**

4 credits.

The student will select four areas of interest from a "menu" of surgical specialties. Through clinic (not operative or inpatient) experiences, it is hoped the student will develop clinical skills in diagnosis, screening, prevention, etc. as it relates to surgical disease. The surgical librarian and faculty will guide the student through a case(s) utilizing EBM research.

**Requisites:** 3rd or 4th yr Med st completion of all CORE clerkships**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016

**SURGERY 929 – PEDIATRIC SURGERY**

2-4 credits.

Students become an integral member of the pediatric surgery service. Development of clinical skills in the diagnosis and treatment of pediatric surgical patients is accomplished through inpatient rounds, clinics, clinical procedures, operative procedures, and surgery conferences.

**Requisites:** SURGERY 812

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**SURGERY 938 – ACTING INPATIENT INTERNSHIP - SURGERY**

4 credits.

As a Surgery Acting Intern (AI), you will have primary responsibility for patients actionable in four domains: 1. Management: As an AI, you will develop management and treatment plans based on your history, physical exam, targeted data, and expected postoperative course. 2. Communication: AIs will communicate with colleagues, primary care providers and consultants. AIs will demonstrate thorough patient hand-offs, and communicate concise discharge summaries that will be integral to patient care. 3. Learning: Patient care will be the central guide for learning, directing reading, consultation and research. AIs will formulate questions based upon clinical dilemmas, research the appropriate literature and databases to find the answers, and apply findings to the care of individual patients. 4. Organization: As the primary inpatient provider for patients, AIs will develop efficiency in accomplishing the day to day tasks necessary for the coordination and management of patient care.

**Requisites:** Fourth year medical student status

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SURGERY 939 – ADULT ORTHOPEDICS FOR THE FUTURE ORTHOPEDIST CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SURGERY 940 – ADULT ORTHOPEDICS FOR THE NON-ORTHOPEDIST CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SURGERY 941 – ADULT ORTHOPEDICS AND FRACTURES-VAH**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SURGERY 944 – UPPER EXTREMITY ORTHOPAEDIC CLERKSHIP-MARSHFIELD CLINIC**

2-12 credits.

Clinical elective for fourth year medical students.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2016

**SURGERY 948 – OTOLARYNGOLOGY CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SURGERY 949 – CLINICAL OTOLARYNGOLOGY CLERKSHIP-LACROSSE**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SURGERY 954 – PERIPHERAL VASCULAR CLERKSHIP-CSC/VAH**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SURGERY 956 – PLASTIC AND RECONSTRUCTIVE SURGERY CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SURGERY 957 – PLASTIC SURGERY-MARSHFIELD**

2-12 credits.

**Requisites:** 4th yr Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SURGERY 960 – TRANSPLANTATION CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**SURGERY 961 – BURN SURGERY CLERKSHIP (CSC)**

2-12 credits.

Clinical elective for fourth year medical students.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**SURGERY 962 – CRITICAL CARE SURGERY-CSC**

2-12 credits.

Clinical elective for fourth year students.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SURGERY 963 – CARDIAC SURGERY CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SURGERY 964 – THORACIC SURGERY CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SURGERY 967 – UROLOGY CLERKSHIP-CSC**

2-12 credits.

**Requisites:** 4th yr Med st**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SURGERY 968 – UROLOGY FOR THE FUTURE PEDIATRICIAN**

2-4 credits.

Clinical urology clerkship for 4th year medical students interested in pursuing a career in pediatrics. Most of the student's time will be spent seeing patients with faculty and residents in the outpatient Urology Clinic at AFCH. However, if students wish to also observe or participate in the Operating Room, they are welcome to do so. Operating Room participation is not expected. Additionally, students will attend weekly educational urologic conferences and will meet in small group sessions with urology faculty for case-based discussions. It is expected that students use evidence based medicine in their case discussions. Students are expected to be clinically active 5 full days per week. Morning and evening rounding are not expected.

**Requisites:** Successful completion of SURGERY 812, Third Year Surgery Clerkship**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**SURGERY 969 – UROLOGY FOR THE FUTURE PRIMARY CARE PROVIDER**

2-4 credits.

Outpatient clinical urology clerkship for 4th year medical students interested in pursuing a career in primary care. Most of the student's time will be spent seeing patients with faculty and residents in the outpatient Urology Clinic at UWHC. However, if students wish to also observe or participate in the Operating Room, they are welcome to do so. Operating Room participation is not expected. Additionally, students will attend weekly educational urologic conferences and will meet in small group sessions with urology faculty for case-based discussions. It is expected that students use evidence based medicine in their case discussions. Students are expected to be clinically active 5 full days per week. Morning and evening rounding are not expected.

**Requisites:** Successful completion of SURGERY 812, Third Year Surgery Clerkship**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**SURGERY 970 – UROLOGY FOR THE FUTURE OBSTETRICIAN/ GYNECOLOGIST**

2-4 credits.

Outpatient clinical urology clerkship for 4th year medical students interested in pursuing a career in Obstetrics/Gynecology. Most of the student's time will be spent seeing patients with faculty and residents in the outpatient Urology Clinic at UWHC. However, if students wish to also observe or participate in the Operating Room, they are welcome to do so. Operating Room participation is not expected. Additionally, students will attend weekly educational urologic conferences and will meet in small group sessions with urology faculty for case-based discussions. It is expected that students use evidence based medicine in their case discussions. Students are expected to be clinically active 5 full days per week. Morning and evening rounding are not expected.

**Requisites:** Successful completion of SURGERY 812, Third Year Surgery Clerkship**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No

**SURGERY 971 – ACCELERATED SKILLS FOR SURGICAL INTERNSHIP**  
2 credits.

Finishing fourth year students with plans to begin surgical internships. The course is aimed at those who will begin a general surgical internship year or a preliminary internship year but is open to those who are beginning other surgical specialties as well (orthopedics, ENT, plastic surgery, and urology). The primary goal of this course is to better prepare students for the basic expectations of surgical internship. Our specific learning objectives are as follows: A.Patient Assessment Skills  
a.To learn to admit a surgical patient, with an emphasis on note and order writing b.To evaluate a preoperative patient in the surgical clinic c.To dictate clinic notes, operative notes, and discharge summaries efficiently d.To give a precise yet thorough presentation of a new patient to surgical faculty e.To learn to address common floor complaints of the postoperative patient (e.g. fever, chest pain, shortness of breath, confusion, tachycardia, hypotension etc) f.To learn to evaluate common postoperative laboratory abnormalities (e.g. anemia, hyponatremia, thrombocytopenia, hypercarbia etc.) g.To interpret basic imaging studies independently, with an emphasis on CXR, abdominal CT and abdominal plain films B.Student Technical Skills: a.To place a peripheral IV, arterial blood gas, and arterial line b.To place a central venous catheter c.To perform properly a needle and tube thoracostomy d.To excise a skin lesion with appropriate closure e.To place a surgical airway f.To perform a hand sewn and stapled bowel anastomosis g.To perform a vascular anastomosis h.To identify and use basic surgical instruments C.Student Knowledge Base and Practical Skills a.To review basic surgically relevant anatomy (neck, chest, abdomen and pelvis) b.To review and identify common postoperative complications c.To manage the routine daily postoperative care of a general surgical patient d.To learn to interact appropriately with nursing staff, consulting services, radiology, pathology and ancillary staff e.To learn how to be involved in patient care in the operating room environment f.To be able to adequately prepare and consent a patient for the OR (i.e. understand the "preop" basics) g.To identify when to ask for help from senior residents and staff.

**Requisites:** SURGERY 812 (3rd Year Core Clerkship)

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**SURGERY 972 – INTERPROFESSIONAL SIMULATION TEAM IMMERSION COURSE**

2 credits.

The Inter Professional Simulation Team Immersion Course is a highly interactive, hands-on multidisciplinary course. Students from up to 5 professional disciplines will learn together and practice healthcare case scenarios on high fidelity manikins. Topics discussed include; Healthcare Ethics, leverage the unique roles of interprofessional partners, effective team performance, crisis resource management, clinical dilemmas and critical thinking to improve the quality of patient-centered care, minimize healthcare errors, and positively impact health outcomes. This course uses clinical simulation where communication skills and clinical skills can be learned practiced in a safe realistic setting that encourages feedback, reflection, and skill mastery. Consent of instructor for other health professional students

**Requisites:** Medical Students must have 3rd year standing and have completed at least two of the following: MEDICINE 812, Senior Medical Program 812, Pediatrics 812, ObsGyn 812, SURGERY 812.

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**SURGERY 973 – OPTIMIZING VALUE, QUALITY AND SAFETY IN HEALTHCARE: A CASE STUDY IN SURGERY**

2 credits.

Fourth year medical students will follow patients longitudinally from clinic to discharge (including rehabilitation and home health care) and consider how these important concepts are encountered and impact care in the clinical arena. The overall strategy for this clerkship is to offer students an opportunity to follow two to four patients from the clinic, to the operating room and through their postoperative course. The concepts covered in this course will be generalizable to other disciplines.

**Requisites:** SURGERY 812

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SURGERY 974 – PATIENT EDUCATION AS A STRATEGY FOR ADVOCACY**

2 credits.

Students will develop knowledge of how people learn and adult learning principles and how these apply to medicine as well as learn and practice effective interpersonal communication techniques. Students will reflect on their own strategies they use to communicate with patients and develop and implement a plan to improve their communication with patients. Students will reflect on how effective communication and patient education allows physicians to act as advocates for their patients and discuss barriers to patient education and discuss strategies to mitigate those barriers. Finally, students will gain insight into communication and education strategies for patients with communication issues.

**Requisites:** Declared in the Medical program with 4th year standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**SURGERY 975 – MULTIDISCIPLINARY APPROACHES TO COLON CANCER PREVENTION/TREATMENT**

2 credits.

The reasons behind the failure of colorectal cancer screening programs are many and complex. The proposed course will explore the reasons behind these failures as well as teach the students the standard of care for prevention, diagnosis, and treatment of colorectal cancer. We will expose students to all facets of the disease and actively engage them in dialogue to improve screening programs colorectal cancer. Through this broad exposure, the student will identify methods to improve medical care and population health. We will also provide the students with the background to enable them to begin to integrate emerging information on individual's biologic and genetic risk with population-level factors when deciding upon prevention and treatment options. By working with the various members of the healthcare team involved in treating colorectal cancer and educate the public on the importance of colorectal cancer screening. In general, the student will spend two weeks participating in activities with gastroenterology, oncology, radiation oncology, colorectal surgery and radiology. This course is intended for students in Phase 3 of the MD program.

**Requisites:** Declared in Medical program**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**SURGICAL SCIENCES (SURG SCI)****SURG SCI 501 – RADIOGRAPHIC ANATOMY OF THE DOG AND CAT**

1 credit.

Normal radiographic anatomy of the dog and cat. This will include soft tissue structures as well as the skeletal system. Clinical case material to emphasize the need for a thorough knowledge of normal radiographic anatomy.

**Requisites:** Declared in Veterinary Medicine program**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**SURG SCI 542 – VETERINARY OPHTHALMOLOGY**

2 credits.

Provides basic instruction in the application of ophthalmic diagnostics and therapeutics to small and large domestic animals. Professional students should gain sufficient skills and knowledge to accurately diagnose, treat, prognose or refer domestic animals with common ophthalmic disorders.

**Requisites:** Vet Med st or cons inst**Repeatable for Credit:** No**Last Taught:** Spring 2017**SURG SCI 544 – SURGERY FUNDAMENTALS**

2 credits.

Introductory material on the scientific foundations of surgery. Prepares student for clinical course work in veterinary surgery and medicine.

**Requisites:** Declared in Veterinary Medicine program**Repeatable for Credit:** No**Last Taught:** Spring 2017**SURG SCI 547 – FUNDAMENTALS OF ANESTHESIOLOGY**

2 credits.

This is a comprehensive course in Veterinary Anesthesiology. The first half of the course (~15 lectures) will cover basic principles of sedation, pain physiology, anesthetic drugs, anesthetic monitoring, and the practical considerations in performing anesthesia on healthy veterinary species. The second half of the course (~15 lectures) will focus on anesthetic management of common veterinary species with concurrent medical disease. Lectures will also be included that cover advanced pain management principles and techniques, anesthesia for exotic animal species, and breed considerations in anesthesia. Lectures will be case-based and interactive where appropriate.

**Requisites:** Successful completion of semesters 1 - 3 of the DVM curriculum**Repeatable for Credit:** No**Last Taught:** Spring 2017**SURG SCI/F&W ECOL 548 – DISEASES OF WILDLIFE**

3 credits.

This course is designed to provide students with an overview of the issues involved across a wide range of wildlife diseases, presented within the context of ecosystem health or "one health". The primary focus of the lectures will be on the biological, epidemiological, clinical, public health and, in some cases, sociopolitical ramifications of wildlife diseases. The course will cover a wide variety of wildlife diseases caused by bacteria, viruses, parasites, prions, and environmental contaminants. Consequences associated with environmental changes on the manifestation of wildlife diseases will also be discussed. This range of diseases will be presented in order to familiarize students with the many facets involved in disease management, from animal and human health issues, to ecological and environmental considerations, to the role of society in contributing to, and managing, these diseases.

**Requisites:** Junior standing**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**SURG SCI 630 – SMALL ANIMAL SURGERY**

4 credits.

The pathophysiology and diagnosis of common general, orthopedic, and neurologic surgical diseases of small animals are presented. The operative management and postoperative care of small animal surgical patients are discussed in detail.

**Requisites:** Declared in Veterinary Medicine program**Repeatable for Credit:** No**Last Taught:** Fall 2017



**SURG SCI 631 – LARGE ANIMAL SURGERY: ORTHOPEDIC AND SOFT TISSUE**

3 credits.

Instruction will be provided in examination techniques, diagnostic aids and surgical procedures relevant to the gastrointestinal, integumentary, musculoskeletal, respiratory and genitourinary systems of the equine and food animal species.

**Requisites:** Vet Med standing or consent of instructor

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SURG SCI 632 – SMALL ANIMAL SURGERY LABORATORY**

2 credits.

The basic skills necessary for student participation in the surgical management of small animals in the Veterinary Medical Teaching Hospital are presented.

**Requisites:** Declared in Veterinary Medicine program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SURG SCI 634 – SMALL ANIMAL ANESTHESIA LABORATORY**

1 credit.

In this laboratory the students will apply principles and techniques of veterinary anesthesia to common companion animals.

**Requisites:** Declared in Veterinary Medicine program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SURG SCI 638 – VETERINARY DIAGNOSTIC IMAGING**

2 credits.

Veterinary radiology principles, physical background and diagnostic techniques will be taught and emphasized in laboratory exercises.

**Requisites:** Declared in Veterinary Medicine program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SURG SCI 642 – LARGE ANIMAL SURGERY: CLINICAL ROTATION**

2 credits.

Final year veterinary students will be assigned to the Large Animal Surgery Service. They will be taught the admission, examination, preoperative management, surgical procedures and postoperative management of large animals presented to the Veterinary Medical Teaching Hospital.

**Requisites:** Declared in Veterinary Medicine program

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SURG SCI 644 – CLINICS-SMALL ANIMAL ORTHOPEDIC SURGERY**

2 credits.

Fourth year veterinary student rotation through orthopedic and neurosurgical clinics and surgery.

**Requisites:** Declared in Veterinary Medicine program

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SURG SCI 645 – SENIOR ROTATION IN SMALL ANIMAL GENERAL SURGERY**

2 credits.

A practical course in the diagnosis and treatment of general surgical diseases of small animal species.

**Requisites:** Declared in Veterinary Medicine program

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SURG SCI 646 – VETERINARY ANESTHESIOLOGY-CLINICAL ROTATION**

2 credits.

Students will learn clinical anesthesia techniques including preanesthetic evaluation, induction procedures, intraoperative care, and recovery management of domestic livestock and pets. Critical patient care will be taught.

**Requisites:** Declared in Veterinary Medicine program

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SURG SCI 647 – RADIOLOGY CLINICS**

2 credits.

Clinical clerkship in the Veterinary Medical Teaching Hospital half days over a two week period. Provides exercises in technical and interpretive diagnostic radiology.

**Requisites:** Declared in Veterinary Medicine program

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SURG SCI 675 – SPECIAL TOPICS**

1-5 credits.

Topics vary.

**Requisites:** Cons inst

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SURG SCI 676 – SPECIAL SPECIES HEALTH**

2 credits.

Basic principles of avian, reptile and laboratory animal medicine and surgery.

**Requisites:** 3rd yr Vet Med st

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SURG SCI 677 – VETERINARY DENTISTRY ELECTIVE**

1 credit.

Introduction to veterinary dentistry principles and practice.

**Requisites:** 3rd yr Vet Med st

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SURG SCI 699 – DIRECTED STUDY**

1-5 credits.

Projects in the laboratory and/or through library work in specific subject area under the direct guidance of a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SURG SCI 741 – CLINICAL OPHTHALMOLOGY ROTATION**

2 credits.

Course provides experience in ocular examination, problem solving skills, and formulation of diagnostic and therapeutic plans for animals presenting with eye disease. Ocular examination as part of the complete physical examination and ocular manifestations of systemic diseases are emphasized.

**Requisites:** Declared in Veterinary Medicine program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SURG SCI 743 – ADVANCED ANESTHESIOLOGY/CRITICAL CARE MEDICINE**

2 credits.

This course will provide advanced training in the areas of small and large animal anesthesia and/or critical care medicine. The student may elect a general rotation or one particular area of study.

**Requisites:** Declared in Veterinary Medicine program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**SURG SCI 744 – RESTRAINT AND ANESTHESIA OF EXOTIC ANIMALS**

2 credits.

Advanced anesthesiology techniques for animals in zoological collections, wildlife parks, and non-domestic settings will be taught in this course. Emphasis on pharmacology and physiology will be stressed.

**Requisites:** Declared in Veterinary Medicine program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SURG SCI 746 – FOOD ANIMAL SURGERY**

2 credits.

The course will provide didactic and surgical experience in the major, common surgical diseases of cattle and pigs.

**Requisites:** Declared in Veterinary Medicine program

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**SURG SCI 748 – DENTISTRY AND ORAL SURGERY ROTATION**

1-3 credits.

Dentistry, oral medicine and surgery as well as comprehensive patient care through the use of progressive methods, hospital resources and interdisciplinary specialists.

**Requisites:** 4th yr Vet Med st

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SURG SCI 750 – SMALL ANIMAL ULTRASOUND ELECTIVE**

1 credit.

Course will introduce student to hands-on ultrasound imaging and expand on selected portions of ultrasound physics, literature and problem-based case studies.

**Requisites:** Surg Sci 647

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**SURG SCI 775 – EXTERNSHIP**

1-24 credits.

This course is an elective for fourth year veterinary medical students which offers faculty coordinated experience in the veterinary medical profession outside the School.

**Requisites:** Vet Med st or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**SURG SCI 812 – RESEARCH ETHICS AND CAREER DEVELOPMENT**

2 credits.

This course provides instruction in principles and concepts of research ethics through presentations and discussion of case studies. Topics pertinent to development of a successful career in research are also included.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

## THEATRE AND DRAMA (THEATRE)

### THEATRE/ENGL 120 – INTRODUCTION TO THEATRE AND DRAMATIC LITERATURE

3-4 credits.

Reading important plays, attending stage productions, writing and thinking critically about theatre and drama. Emphasis on developing analytic skills in dramatic literature and theatre production. 4-credit option requires additional writing. 4 cr sections meet Com B requirement

**Requisites:** Open to Fr.

**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### THEATRE 140 – VOICE TRAINING

3 credits.

Correct use of breath, note, tone and word relating to actors' and speakers' function. Concentration on individual minor speech problems.

**Requisites:** So st or cons inst

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### THEATRE 150 – INTRODUCTION TO ACTING

3 credits.

Action, voice and analysis of character for portrayal of realistic roles.

**Requisites:** Open to Fr

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### THEATRE 160 – INTRODUCTION TO STAGE PRODUCTION

3 credits.

Scenery, costumes, lighting, sound, and stage management in stage production. Emphasis on interrelationship between technical and artistic components of production process. Lectures and practical experience in two lab areas for University Theatre productions.

**Requisites:** Open to Fr

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### THEATRE 161 – BACKSTAGE LABORATORY I

2 credits.

Weekly labs and specified performance assignment in which students learn through practical participation in University Theatre productions; lab choices include scenery and costume construction, lighting, and sound.

**Requisites:** Open to all Undergrads

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### THEATRE 162 – THEATRE PRODUCTION LABORATORY

1 credit.

Participation in University Theatre performance in various capacities including light or sound console operator, wardrobe, properties, carpentry, or other areas. Technical rehearsal and performance attendance mandatory. Open to Fr

**Requisites:** THEATRE 160 or cons inst.

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### THEATRE 199 – DIRECTED STUDY

1-3 credits.

Open to Fr So. Cons inst req

**Requisites:** Graded on a lettered basis.

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2008

### THEATRE/DANCE 218 – AFRICAN DANCE PERFORMANCE

2 credits.

Technique, practice and performance of complex African and African-based dances in relation to polyrhythmic musical and percussive accompaniment. Study of historical and cultural contexts of these forms. Development of improvisational skills in dialogue with musicians.

**Requisites:** DANCE 118 required.

**Course Designation:** Breadth - Humanities

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

### THEATRE 219 – UNDERGRADUATE TOPICS IN THEATRE AND DRAMA

1-3 credits.

Undergraduate study in subjects of current interest in design, performance, technology, history, dramatic theory, literature criticism, or theatre/drama education.

**Requisites:** Open to Fr

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**THEATRE 224 – HISTORY OF THEATRICAL PRODUCTION**

3 credits.

Examines key periods in theatre history from ancient to modern. Emphasis on staging practices and theatre as a cultural institution.

**Requisites:** So st, THEATRE/ENGL 120 or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**THEATRE 240 – INTERMEDIATE VOICE TRAINING**

3 credits.

Techniques and practice for increasing vocal strength, range, flexibility and the study of diction. Attention to individual problems in tone production, resonance, and articulation.

**Requisites:** THEATRE 140 or cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**THEATRE 250 – FUNDAMENTALS OF ACTING**

3 credits.

Students focus on developing fundamental acting techniques (voice, characterization, physicality) and learn to apply skills in individual performance and scene study of contemporary dramatic texts.

**Requisites:** THEATRE 150 cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**THEATRE/DANCE 259 – COLLABORATIVE ARTS PERFORMANCE LAB: DEVISING COLLABORATIVE PERFORMANCE THROUGH HIP HOP ARTS**

1-2 credits.

Collaborative Arts Performance Lab is a unique course where students work together to create a repertory company which produces performances of short hip hop theater and other collaborative performance art works for public viewing. It is a creative workshop space where experimental works are researched and developed. These workshops are open to all First Wave students, including Freshmen, and will involve the development of collaborative and small group pieces as well as artistic training with a focus on individual and multi-voice work, theater improvisation, dance/movement.

**Requisites:** None**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**THEATRE 263 – FUNDAMENTALS OF COSTUMES TECHNOLOGY**

3-4 credits.

Theory and techniques of costume construction for theatrical production. Lab required for 4th credit. Open to Fr

**Requisites:** THEATRE 160 or cons inst.**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012**THEATRE 266 – FUNDAMENTALS OF STAGE LIGHTING TECHNOLOGY**

3 credits.

Theories and techniques for the use of stage lighting equipment, special effects, and other stage electric devices.

**Requisites:** Open to all Undergrads**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**THEATRE 270 – FUNDAMENTALS OF STAGECRAFT**

3-4 credits.

Theory and techniques of stagecraft for theatrical production. Lab required.

**Requisites:** Open to all Undergrads**Course Designation:** Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**THEATRE 298 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2004**THEATRE 299 – DIRECTED STUDY**

1-3 credits.

**Requisites:** Graded on a lettered basis; So st requires cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**THEATRE/DANCE/FOLKLORE 321 – JAVANESE PERFORMANCE**

2 credits.

Technique and practice of classical Javanese dance in its musical, historical and cultural contexts.

**Requisites:** Junior standing or consent of instructor**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015

**THEATRE 324 – TRADITIONS IN DRAMATIC LITERATURE**

3 credits.

Multiple approaches to reading plays from a variety of important periods in dramatic literature with an emphasis on the life of older plays in the contemporary repertory. When possible, some course materials are linked to University Theatre production.

**Requisites:** So st, THEATRE/ENGL 120 or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**THEATRE/FOLKLORE 326 – INTRODUCTION TO ASIAN PERFORMANCE**

3-4 credits.

Issues in the study of Asian performance. Principal genres of Asian performance through study of techniques and aesthetics, and plays; East West theatre relationships.

**Requisites:** Jr st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2001**THEATRE 327 – HISTORY OF COSTUME FOR THE STAGE**

3 credits.

Dress in Western civilization is examined through the cultural context of history, art and fashion and related to theatrical costume design through a comparison of theatre designs to their primary visual sources.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**THEATRE 329 – INTRODUCTION TO AFRICAN-AMERICAN PERFORMANCE**

3-4 credits.

Introduction to historical, social and political contexts of African-American artistic expression in theatre and performance. Offers critical analyses of theatre, films, and/or dance forms that reflect cultural values, ideologies and performance aesthetics rooted in African-American and West African traditions.

**Requisites:** Jr st or cons inst**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2012**THEATRE/LITTRANS 335 – IN TRANSLATION: THE DRAMA OF HENRIK IBSEN**

3-4 credits.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**THEATRE/LITTRANS 336 – IN TRANSLATION: THE DRAMA OF AUGUST STRINDBERG**

3-4 credits.

**Requisites:** Junior standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2012**THEATRE 342 – FUNDAMENTALS OF MOVEMENT FOR THE STAGE**

1-3 credits.

Development of the actor's awareness of habitual patterns of tension. Elements of movement including space, time, energy. Introduction to improvisation skills. Repeatable with cons inst

**Requisites:** Cons inst.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**THEATRE/LCA/LITTRANS 348 – IN TRANSLATION: MODERN INDIAN THEATRE**

3 credits.

Study of drama, dramatic theory, and performance in modern India. Course considers interpenetration of Indian and Western systems of dramaturgy, relation between colonial and postcolonial institutions, socio-cultural and political contexts, and major modern dramatic genres.

**Requisites:** Junior standing or consent of instructor**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2010

**THEATRE/LITTRANS 349 – IN TRANSLATION: MODERN SCANDINAVIAN DRAMA**

4 credits.

Examination of the theater of Scandinavia in the wake of Henrik Ibsen and August Strindberg that places modern Nordic theater in a wider European context.

**Requisites:** Jr st**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2008**THEATRE 350 – ACTING REALISM**

3 credits.

Intensive scene study from the major works of selected modern playwrights, concentrating on realism.

**Requisites:** THEATRE 250, 140 and cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**THEATRE 351 – FUNDAMENTALS OF ASIAN STAGE DISCIPLINE**

3 credits.

Intensive movement discipline using Asian martial art techniques and mask work as a preparation for performance.

**Requisites:** Cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**THEATRE 357 – INTRODUCTION TO THEATRE FOR CULTURAL AND SOCIAL AWARENESS**

3 credits.

Analysis of sensitive subject matter in U.S. workplace and school/community settings through theatre and drama. Examines race relations, cultural diversity, gender, sexual orientation and other topics in plays, films, and current events. Develops theatrical models to encourage healthy dialogue.

**Requisites:** So st**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**THEATRE 361 – BACKSTAGE LABORATORY II**

1-2 credits.

Emphasis on student's involvement with a specific responsibility within theatrical production.

**Requisites:** THEATRE 161 or cons inst**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Summer 2016**THEATRE/CURRIC/SLAVIC 362 – DRAMA FOR TEACHING AND LEARNING**

3 credits.

This is a methods course useful for all involved in teaching and learning, including foreign languages. Introduction to philosophy, methodology, and practice of the use of drama and performance techniques in any educational or recreational settings. Focus on creativity and embodied and contextual learning, based on current neurological, psychological, and sociological research. A practical class which includes demonstration and practice with children.

**Requisites:** So st**Course Designation:** Breadth - Humanities

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**THEATRE 363 – PRINCIPLES AND PRACTICE OF STAGE COSTUME DESIGN**

3-4 credits.

A survey of stage costume combined in a lecture/laboratory framework. Fundamentals inherent in costume design process; introduction to procedures and skills needed for executing costumes.

**Requisites:** Sophomore standing**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**THEATRE 364 – MAKEUP FOR THE THEATRE**

3 credits.

An introduction to makeup design for the theater. Students learn the aesthetics of makeup, color theory, and the technical aspects of applying makeup. Topics include the importance of developing a character through makeup, techniques of physically applying makeup to the actor and special effects makeup such as old age and prosthetic makeup appliances. At the end of the course, students are able to research and identify elements of creating a character through makeup and the application of stage makeup to an actor in order to create a character for the stage.

**Requisites:** Sophomore standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017



**THEATRE 365 – SEWING FOR THE THEATRE**

3 credits.

Intermediate sewing techniques used to create theatrical garments will be taught and practiced.

**Requisites:** THEATRE 160**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2015**THEATRE/ART 366 – STAGE LIGHTING I**

3-4 credits.

Application of lighting design to the stage and natural environment. Color principles, lighting instruments, and control equipment. Production participation and labs.

**Requisites:** Sophomore standing**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**THEATRE 368 – FUNDAMENTALS OF DIRECTING**

3 credits.

Principles and practice of play direction; motivational analysis, composition, movement, stage business and rehearsal techniques. Student directs a final project.

**Requisites:** Junior standing**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**THEATRE 370 – DRAFTING FOR THE THEATRE**

3-4 credits.

Methods and development of techniques used in theatrical drafting.

**Requisites:** THEATRE 160 So st; or cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**THEATRE 371 – SOUND FOR THEATRE**

3-4 credits.

Audio equipment and its use in the theatre; the integration of sound as a design element of live theatrical performance.

**Requisites:** Open to all Undergrads**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**THEATRE/ART 372 – SET DESIGN I**

3 credits.

Principles of composition, scale, perspective, and color applied to the stage; production of ground plans, elevations, sketches, and models.

**Requisites:** None**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**THEATRE 374 – RENDERING FOR THE STAGE**

3 credits.

A practical study of drawing, painting, and sketching techniques applied specifically to the presentation of set, costume, and lighting designs on paper.

**Requisites:** THEATRE 363 or 366 or 372 or cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2010**THEATRE 379 – INTRODUCTION TO STAGE MANAGEMENT**

3 credits.

Principles of stage management from auditions through closing night. Class work and supplementary production experience. Open to Fr

**Requisites:** THEATRE 160 or cons inst.**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**THEATRE/GEN&WS 415 – INTRODUCTION TO CONTEMPORARY FEMINIST THEATRE AND CRITICISM**

3 credits.

Introduction to the history, literature and theory of feminist theatre and of feminist criticism of mainstream theatre in the United States from 1960 to the present.

**Requisites:** Sophomore standing**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**THEATRE 420 – THEATRE AND SOCIETY**

3 credits.

Analysis of the ideological and cultural meanings in Western theatre from the perspectives of gender, race, ethnicity, and sexual identity.

**Requisites:** Junior standing**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2012

**THEATRE/DANCE/FOLKLORE 421 – JAVANESE PERFORMANCE REPERTORY**

2 credits.

Introduction to Javanese theatre performance in a Javanese epic tradition. Includes use of Javanese gamelan music as accompaniment for dance drama.

**Requisites:** None**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**THEATRE/LITTRANS 423 – IN TRANSLATION: SLAVIC DRAMA IN CONTEXT**

3 credits.

Slavic playwrights and the European tradition of theatre and drama.

**Requisites:** Sr st or cons inst**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**THEATRE 424 – CONTEMPORARY WORLD THEATRE AND DRAMATIC LITERATURE**

3 credits.

Considers important current trends in performance and dramatic literature worldwide. Writing component includes both literary and performance criticism. When possible, some course materials are linked to University Theatre productions.

**Requisites:** Jr st, THEATRE 224 324**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2015**THEATRE/CURRIC 426 – HISTORY, THEORY, AND DRAMATIC CRITICISM IN THEATRE FOR YOUNG AUDIENCES**

3-4 credits.

Historiographical perspectives in theatre for young audiences; analysis of plays for young people, theoretical implications, assumptions, current developments.

**Requisites:** THEATRE/ENGL 120 or 160 or 200 or 362 or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**THEATRE 431 – HISTORY OF THEATRES AND STAGING**

3 credits.

Theatre architecture, scenery, costume, acting, directing, and modes of staging in Europe from 500 B.C.

**Requisites:** Jr st**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2010**THEATRE 440 – MUSICAL PERFORMANCE FOR THE ACTOR**

3 credits.

Styles and genres of the modern American and British musical theatre for performers. Their application to audition techniques and scene/song presentations.

**Requisites:** Jr st or cons inst**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**THEATRE 450 – ACTING STYLES**

1-3 credits.

Study and demonstration of the various acting styles from the Greek to the modern. Concentration on two specific styles in a semester.

**Requisites:** THEATRE 250, 350, or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**THEATRE/CURRIC 462 – THEATRE FOR YOUNG AUDIENCES: PRODUCTION**

3-6 credits.

A practical class: preparation and performance of a production for young audiences, with development and implementation of accompanying educational material.

**Requisites:** Cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015

**THEATRE 464 – COSTUME TECHNOLOGY TOPICS**

3-4 credits.

Examines techniques used to create costumes. Rotating topics including draping, period patternmaking, tailoring, crafts, and painting. Lab required for 4th credit.

**Requisites:** Theatre 163 or cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**THEATRE 466 – STAGE LIGHTING DESIGN II**

3-4 credits.

Detailed study of lighting design techniques and professional practices for commercial and resident theatres.

**Requisites:** THEATRE/ART 366 either THEATRE 370 or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**THEATRE 469 – INTERDISCIPLINARY STUDIES IN THE ARTS**

1-4 credits.

Guest artists will offer interdisciplinary courses on topics appropriate to their specializations.

**Requisites:** Consent of department**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**THEATRE 470 – FUNDAMENTALS OF TECHNICAL DIRECTION**

3 credits.

Organizational and planning responsibilities of the performing arts technical director. Estimating, scheduling, purchasing, safety, materials, resources, organizational structures.

**Requisites:** Theatre 170 or equiv cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2009**THEATRE 471 – STAGE PROPERTIES**

3 credits.

Materials, processes and organizational techniques commonly used in the fabrication of stage properties.

**Requisites:** Theatre 170, 370, 372 or equiv**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2010**THEATRE 472 – SCENIC PAINTING**

3 credits.

Painting scenery for the stage. Techniques for painting drops, flats, and props in a range of illusion effects.

**Requisites:** None**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**THEATRE/ENGL 477 – DIASPORA AND THEATRE**

3 credits.

Study of the drama and theatre of a variety of immigrant communities in three Western locations: Britain, the United States, and Canada. Course focuses on current theories of diaspora and transnationalism, the place of theatre in diasporic writing, and the literary, performative, and material dimensions of the genre.

**Requisites:** Sophomore Standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2016**THEATRE 501 – THE BUSINESS OF ACTING**

3 credits.

Teaches actors the vital, non-performance skills and knowledge needed to launch professional acting careers. Knowledge of self-promoting, marketing, unions, networking, headshot/resumes, agents, casting directors, trade publications, and more will empower the actor and ease their transition into the professional world.

**Requisites:** Junior standing and THEATRE 150 or COM ARTS 260**Repeatable for Credit:** No**Last Taught:** Fall 2016**THEATRE 521 – THE PRE-MODERN DRAMA OF EUROPE: 1650-1850**

3 credits.

Plays and essays from the European repertoire (England, France, Germany, Spain, Russia, Italy) prior to the rise of Realism and representing several theatrical forms (new-classicism, romanticism) and including such playwrights as Wycherley, Behn, Congreve, Racine, Moliere, Beaumarchais, Schiller, Goethe, Kleist, Lope de Vega, Calderon, Ostrovsky, Goldoni, etc.

**Requisites:** Junior standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2009

**THEATRE 522 – EXPERIMENTAL DRAMA: THE THEATRE OF EUROPE 1850-THE PRESENT**

3 credits.

The development of realistic and postrealistic forms in modern and postmodern drama, from Zola, Ibsen, Strindberg, and Chekhov through futurism, expressionism, Dada, and surrealism, Brecht, the Theatre of the Absurd, and contemporary European theatre.

**Requisites:** Junior standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**THEATRE/CURRIC 525 – THEATRE IN EDUCATION**

3-4 credits.

Theory and practice of theatre in elementary and secondary educational settings. Students in this course devise, script, and present programs as actor-teachers and interact with audiences.

**Requisites:** So st cons inst**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**THEATRE 526 – THE THEATRES OF CHINA AND JAPAN**

3 credits.

An advanced study of the theatres of China and Japan in relation to aesthetics and form.

**Requisites:** THEATRE/FOLKLORE 326 or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016**THEATRE/SLAVIC 532 – HISTORY OF RUSSIAN THEATRE**

3 credits.

The history of Russian theatre and related arts (including opera and ballet) with emphasis on performance history.

**Requisites:** Junior standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2014**THEATRE/ENGL 534 – AMERICAN DRAMA AND THEATRE TO 1900**

3 credits.

Significant American plays, playwrights and modes of theatrical production during the eighteenth and nineteenth centuries, with attention to the theatre as a force in a developing national culture.

**Requisites:** Junior standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2009**THEATRE/ANTHRO/FOLKLORE/MUSIC 539 – THE FOLKLORE OF FESTIVALS AND CELEBRATIONS**

3 credits.

Survey of interdisciplinary literature on social/performative folklore aesthetics and environments by in-depth study of three festivals and ceremonies. Required field trips.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2014**THEATRE 541 – ACTING SHAKESPEARE**

1-3 credits.

Studio presentation of Shakespearean drama with emphasis on language and verse structure; techniques for enhancing performances skills.

Repeatable with cons inst

**Requisites:** THEATRE 240, 350 and cons inst.**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**THEATRE 550 – ADVANCED SCENE STUDY**

1-3 credits.

Intensive scene study from the major works of selected modern playwrights. Repeatable with instructor consent

**Requisites:** THEATRE 250, 350 and instructor consent.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014

**THEATRE 557 – ADVANCED THEATRE FOR CULTURAL AND SOCIAL AWARENESS**

3 credits.

Practical implementation of theories and skills developed in THEATRE 357. Students participate in training engagements addressing issues of sensitive subject matter (race relations, cultural diversity, gender, sexual orientation) for U.S. businesses, organizations, and schools.

**Requisites:** THEATRE 357 or cons inst

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**THEATRE 561 – BACKSTAGE LABORATORY III**

1-2 credits.

Emphasis on fulfilling one major assignment in theatre performance or production situation such as actor, stage manager, master carpenter, wardrobe master, properties master.

**Requisites:** THEATRE 361 or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**THEATRE/CURRIC 562 – DRAMA IN EDUCATION: ADVANCED STUDIES**

3-4 credits.

Advanced studies in theories and practices of drama in education.

**Requisites:** THEATRE/CURRIC/SLAVIC 362 or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**THEATRE 563 – COSTUME DESIGN II**

3 credits.

Problems in use of line, form, color, texture, and movement in the design of costumes for the stage. Class projects include investigation into classical and contemporary drama.

**Requisites:** Grad st or cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**THEATRE 568 – DIRECTING LAB**

3 credits.

Analysis, conceptualization and rehearsal of a play culminating in a performance presented for an audience.

**Requisites:** THEATRE 368 cons inst

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2013

**THEATRE 570 – ADVANCED STAGECRAFT**

3 credits.

An intensive study of stage rigging, scenic locomotion, set construction and structural analysis techniques.

**Requisites:** THEATRE 160, THEATRE 370 or equiv, or cons inst; may be taken concurrent with 370

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**THEATRE 571 – SCENERY AUTOMATION-MECHANICS**

1-3 credits.

Metalworking, automation and plastics forming as applied to scenery construction. Health and safety considerations are explored in each subject area.

**Requisites:** High school level algebra and basic trigonometry

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2011

**THEATRE/ART 572 – SET DESIGN II**

3 credits.

Historical survey of visual theatre, painting, and architectural styles adapted to various dramatic forms. Application of design elements and styles to contemporary theatre productions.

**Requisites:** ART/THEATRE/ART 372

**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017



**THEATRE/ENGL 575 – BRITISH DRAMA, 1914 TO PRESENT**

3 credits.

Plays and playwrights from the first World War to the present, including movements leading to the "revolt" of 1956 and subsequent proletarian and absurdist drama. Plays by Shaw, O'Casey, Maugham, Coward, Eliot, Osborne, Beckett, Pinter, Stoppard, Arden, Wesker, Bond, Churchill and others.

**Requisites:** Junior standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**THEATRE/ENGL 576 – SURVEY: THEORIES OF DRAMA**

3 credits.

Selected major critical and theoretical sources, from Aristotle to the present day; the influences of theories upon playwriting and modes of theatrical production.

**Requisites:** Junior standing**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**THEATRE/ENGL 577 – POSTCOLONIAL THEATRE: DRAMA, THEORY AND PERFORMANCE IN THE GLOBAL SOUTH**

3 credits.

Study of drama, dramatic theory and theatrical practices in postcolonial cultures, primarily in Asia, Africa and the Caribbean. Course considers status of drama/theatre in postcolonial studies and focuses on issues of form, language, intertextuality, trans-culturation, material organization and reception.

**Requisites:** Junior standing or consent of instructor**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**THEATRE/ENGL 578 – MODERN AMERICAN DRAMA AND THEATRE**

3 credits.

Representative twentieth-century plays from Glaspell and O'Neill to the present considered within contemporary cultural, theatrical and academic context.

**Requisites:** Junior standing**Course Designation:** Breadth - Literature. Counts toward the Humanities req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**THEATRE 579 – ADVANCED CONCEPTS IN STAGE MANAGEMENT**

2 credits.

Advanced study of organizational behaviors, theatre infrastructures, styles communication techniques in relation to Stage Management.

**Requisites:** So st and cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**THEATRE 595 – TOPICS IN THEATRE AND DRAMA: STUDY ABROAD**

1-6 credits.

A course carried with a UW-Madison study abroad program which has no equivalent on this campus.

**Requisites:** Current reg in a UW-Madison study abroad prog**Course Designation:** Breadth - Humanities

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**THEATRE 619 – SPECIAL TOPICS IN THEATRE AND DRAMA**

1-3 credits.

Specialized subjects of current interest in design, performance, technology, history, dramatic theory, literature criticism, and theatre/drama education.

**Requisites:** Junior standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**THEATRE 631 – THEORIES OF ACTING**

3 credits.

Interdisciplinary and cross-cultural seminar on the historical, cultural, performative, aesthetic, and ideological construction of acting on stage.

**Requisites:** Sr st, Grad st or cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2012**THEATRE 661 – ADVANCED PRODUCTION PRACTICUM**

1-3 credits.

Provides students the opportunity to apply their knowledge in a production setting. Enrollment is limited to designated Dramaturg, Lighting Designer, Costume Designer, Set Designer, Technical Director, Assistant Dramaturg, Assistant Designers, or Assistant Technical Director on a season production for the University Theatre.

**Requisites:** Cons Inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017



**THEATRE 670 – ADVANCED STUDY IN THEATRE DESIGN AND TECHNOLOGY**

4 credits.

In-depth study of theories, skill, and issues in set, costume, and lighting design and theatre technology. Meets with Graduate Core Curriculum. Rotating topics.

**Requisites:** Jr st cons inst**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2009**THEATRE 681 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** Sr st written cons inst**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2017**THEATRE 682 – SENIOR HONORS THESIS**

3 credits.

**Requisites:** THEATRE 681 written consent of instructor**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Spring 2017**THEATRE 691 – SENIOR THESIS**

2-3 credits.

25 GPA and written cons inst

**Requisites:** Sr st 3.**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
**Repeatable for Credit:** No

**Last Taught:** Fall 1999**THEATRE 692 – SENIOR THESIS**

2-3 credits.

**Requisites:** THEATRE 691 written cons inst**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
**Repeatable for Credit:** No

**Last Taught:** Fall 1999**THEATRE 698 – DIRECTED STUDY**

1-6 credits.

Cr/N.

**Requisites:** Graded on a cr/n basis; Jr or Sr st and requires written cons inst**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2016**THEATRE 699 – DIRECTED STUDY**

1-6 credits.

**Requisites:** Graded on a lettered basis; Jr or Sr st requires written cons inst**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**THEATRE/ENGL 731 – ADVANCED THEATRE HISTORY 500 BC TO 1700**

3 credits.

Problems of scholarship in the dramatic, performance and staging practices of major traditions of world theatre history between 500 BCE and 1700 including the theatres of ancient Greece and Rome; medieval, Renaissance and early modern Europe; and the Muromachi and Tokugawa eras in Japan.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**THEATRE/ENGL 732 – ADVANCED THEATRE HISTORY 1700 TO PRESENT**

3 credits.

Problems of scholarship in the dramatic, performance and staging practices of major traditions of world theatre history since 1700, including melodrama, naturalism, the avant-garde, and other movements that helped shaped contemporary theatre.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**THEATRE 740 – VOICE TRAINING**

3 credits.

Principles of voice and speech for the actor.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**THEATRE 742 – GRADUATE STAGE MOVEMENT**

3 credits.

Advanced study of processes, styles and techniques of stage movement. Individual and group projects.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014

**THEATRE 750 – GRADUATE ACTING**

1-3 credits.

Advanced study of process and technique in acting. Individual and group projects.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2014

**THEATRE 763 – COSTUME DESIGN III**

3 credits.

Advanced problems in costume design for the stage.

**Requisites:** Graduate standing Theatre Drama 563 or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**THEATRE 768 – ADVANCED PROBLEMS IN DIRECTING**

3 credits.

Special directing challenges, e.g., musical theatre, new work and adaptation development, performance styles, multimedia challenges.

**Requisites:** Theatre Drama 568, consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2014

**THEATRE 770 – ADVANCED THEATRE TECHNOLOGY**

3 credits.

Detailed study of research and practice in the physical theatre and its scenic devices.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**THEATRE 799 – INDEPENDENT STUDY**

1-6 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2015

**THEATRE 822 – SHAKESPEARE SEMINAR: THEORY AND PRACTICE**

3 credits.

Selected Shakespearean texts examined in the light of contemporary critical theories and the application of those theories to the possibilities for staging.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2008

**THEATRE 911 – SEMINAR-PROBLEMS IN THEATRE AND DRAMA**

2-3 credits.

Topics variable.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**THEATRE 939 – SPECIAL TOPICS-PERFORMANCE THEORY AND CRITICISM**

3 credits.

Theoretical and critical methods, from traditional to contemporary, that elucidate past and present dramatic forms and practices.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2008

**THEATRE 970 – COLLABORATIVE DESIGN & TECHNOLOGY STUDIO**

3 credits.

Graduate seminar focused on providing advanced students in design and technology opportunities to collaborate on projects within the classroom.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**THEATRE 972 – SEMINAR-ADVANCED PROBLEMS IN STAGE DESIGN**

3 credits.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2011

**THEATRE 990 – RESEARCH AND THESIS**

1-9 credits.

Independent research and writing under the supervision of a staff member.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**THEATRE 999 – INDEPENDENT STUDY**

1-3 credits.

Independent pursuit of a creative project designed by the student and supervised by a staff member.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2015

## THERAPEUTIC SCIENCE (DEPARTMENT OF KINESIOLOGY) (THER SCI)

## UNIVERSITY FORUM (UNIV FOR)

### UNIV FOR 500 – UNIVERSITY FORUM

1 credit.

**Requisites:** Open to Freshmen

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2015

## URBAN AND REGIONAL PLANNING (URB R PL)

### URB R PL/GEOG 305 – INTRODUCTION TO THE CITY

3-4 credits.

Investigates urbanization as a general process, as well as the resulting contemporary physical, social, cultural and political-economic forms of cities. As an ethnic studies class, emphasis will be placed on the history and current forms of spatial and social segregation of cities by race, class, ethnicity, and gender. The myriad ways that cities have addressed the tensions emerging from this history of spatial and social segregation will be highlighted. Further, emphasis will be placed on understanding the experiences of those most-affected by historical and continuing segregation.

**Requisites:** Sophomore standing

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### URB R PL/A A E/ECON/REAL EST 306 – THE REAL ESTATE PROCESS

3 credits.

Introductory survey course. Decision-making processes for the manufacture, marketing, management and financing of real estate space. Survey of institutional context, economics of urbanization, historical pattern and structure of city growth, and public policy issues regarding urban environment and business management.

**Requisites:** So, Jr, or Sr st; ECON 101

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### URB R PL/JOURN/POLI SCI 373 – INTRODUCTION TO SURVEY RESEARCH

3 credits.

Theory and practice of survey research; planning, sampling, questionnaire construction, interviewing, content analysis, machine tabulation, analysis of data; two hours lecture; two hours lab or field work. Not open to students with credit for POLI SCI 544 prior to fall 2017

**Requisites:** Sophomore standing.

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

### URB R PL/ECON/REAL EST 420 – URBAN AND REGIONAL ECONOMICS

3 credits.

Nature and structure of urban economies; location of economic activity; economic analysis in an urban framework; principles of urban economic development, housing, transportation, poverty and unemployment and municipal finance. Forecasting of economic activity using census and socioeconomic data.

**Requisites:** ECON 101

**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

### URB R PL/ECON/ENVIR ST/POLI SCI 449 – GOVERNMENT AND NATURAL RESOURCES

3-4 credits.

Problems of public policy and administration for development and use of natural resources.

**Requisites:** Junior standing

**Course Designation:** Breadth - Social Science

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2017

### URB R PL/LAND ARC 463 – EVOLUTION OF AMERICAN PLANNING

3 credits.

The nature and cultural significance of contemporary methods for the systematic formulation of public policies for community, metropolitan, and state development through comprehensive planning. Historic roots, recent trends and new directions in American planning concepts, institutions and professional specializations.

**Requisites:** Junior standing

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

**URB R PL/GEOG 503 – RESEARCHING THE CITY: QUALITATIVE STRATEGIES**

3 credits.

Explores, and applies, qualitative methods in the field of urban geography. An introduction to debates around the analysis and interpretation of qualitative data is provided, grounded in concrete urban research. Participation in a three-day field course is required.

**Requisites:** Jr st**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2010**URB R PL/GEOG 505 – URBAN SPATIAL PATTERNS AND THEORIES**

3 credits.

Various urban empirical regularities and theories which explain them.

**Requisites:** GEOG/URB R PL 305 or consent of instructor**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**URB R PL/GEOG 506 – HISTORICAL GEOGRAPHY OF EUROPEAN URBANIZATION**

3 credits.

Historical geography of urban development in Europe from classical times to the post-World War II era, with emphasis on changes in built environment, public space and infrastructure, land use, and urban systems.

**Requisites:** Jr st**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2015**URB R PL/A A E/REAL EST 520 – COMMUNITY ECONOMIC ANALYSIS**

3 credits.

Economic theory (location and growth) applicable to community economic development; the role of private and public sector in local economic development, and techniques for economic analysis of community.

**Requisites:** ECON 301 or equiv**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**URB R PL/A A E/CIV ENGR/ENVIR ST 561 – ENERGY MARKETS**

3 credits.

Energy resources are an essential element of the world's business, political, technical and environmental landscape. Analytic tools provided by the discipline of economics expands our understanding of this critical issue. Energy supply markets reviewed include both fossil fuels and renewable resources. Energy demand sectors include residential, commercial, industrial and transportation. Electricity represents an intermediate energy market. The interactions among these markets participants indicate how scarce resources are allocated among competing needs in the world economy.

**Requisites:** A A E 215, ECON 101, or ECON 111**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**URB R PL 590 – CONTEMPORARY TOPICS IN URBAN AND REGIONAL PLANNING**

1-3 credits.

Examination of special issues or problems in urban and regional planning and development, such as mineral development in Wisconsin or fringe development in Madison. Topic and faculty vary. Cons inst

**Requisites:** Open to Srs and Grads.**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**URB R PL 601 – SITE PLANNING**

3 credits.

Survey of site planning theory and methods; standards for municipal review of site plans and related design proposals. Topics include architecture, vehicle circulation and parking, pedestrian circulation, stormwater management, landscaping, outdoor lighting, and signage. Intended for students without design backgrounds.

**Requisites:** Sr st cons inst or Grad st**Course Designation:** Breadth - Either Humanities or Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2016

**URB R PL 611 – URBAN DESIGN: THEORY AND PRACTICE**

3 credits.

Focusing on three basic components of the built environment – buildings, transportation systems, and open spaces – this course addresses the forces that shape land use and transportation patterns, the effects of urban form on public health, safety, and welfare, and ways that communities can make their built environments more livable and environmentally sustainable.

**Requisites:** Senior or graduate standing only**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**URB R PL/C&E SOC/SOC 617 – COMMUNITY DEVELOPMENT**

3 credits.

Social, cultural and personality factors influencing community development, with reference to developing countries as well as contemporary rural communities; consideration of theoretical and operational issues.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/ C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/ C&E SOC 211)**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**URB R PL/LAND ARC 622 – APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS IN PLANNING**

3 credits.

Explores planning-related GIS data, applications, analytical tools, and issues. Grad st or cons inst. Priority given to Urb R Pl stdts

**Requisites:** Intro GIS course or experience using GIS is a pre-requisite.**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**URB R PL/ECON/REAL EST 641 – HOUSING ECONOMICS AND POLICY**

3 credits.

The economic principles underlying the dynamics of the housing market; filtering, neighborhood decline and abandonment gentrification, tenure choice, mortgage choice, prepayment, mobility, mortgage default, submarket identification, racial discrimination and segregation. Examination of governmental programs affecting the housing market and their objectives and impacts; public and subsidized housing, zoning and land use regulation, rent and price controls, property and income tax policy.

**Requisites:** Real Est 420 or con reg or cons inst**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2014**URB R PL/GEN&WS 644 – INTERNATIONAL DEVELOPMENT AND GENDER**

3 credits.

In addition to reviewing gender-within-development theory and practice, this course examines specific gender issues including social status and roles, productive and reproductive work, access to resources, identity and citizenship, empowerment, and intersection of race, class, and ethnicity with gender.

**Requisites:** Grad or Sr st**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**URB R PL/C&E SOC/SOC 645 – MODERN AMERICAN COMMUNITIES**

3 credits.

Relevance of the concept of community to American society. Review of several basic theories of community and analysis of the nature of community in the broader political and economic context.

**Requisites:** Completion of introductory Sociology course (CE SOC/SOC/ C&E SOC 140, SOC 181, CE SOC/SOC/C&E SOC 210, or CE SOC/SOC/ C&E SOC 211)**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**URB R PL/ENVIR ST 668 – GREEN POLITICS: GLOBAL EXPERIENCE, AMERICAN PROSPECTS**

3 credits.

An examination of the writings and activities of green parties and movements around the globe in order to assess the potential of an explicit, radical environmental politics for the United States.

**Requisites:** Jr st or cons inst**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**URB R PL/A A E/ECON/ENVIR ST 671 – ENERGY ECONOMICS**

3 credits.

The method, application, and limitations of traditional economic approaches to the study of energy problems. Topics include microeconomic foundations of energy demand and supply; optimal pricing and allocation of energy resources; energy market structure, conduct, and performance; macro linkages of energy and the economy; and the economics of regulatory and other public policy approaches to the social control of energy.

**Requisites:** (Senior standing and ECON 101 or AAE 215) or graduate standing**Course Designation:** Breadth - Social Science

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017



**URB R PL 699 – DIRECTED STUDY**

1-6 credits.

**Requisites:** Jr or Sr st written cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**URB R PL 711 – PLANNING FOR FOOD SYSTEMS AND MARKETPLACES**

3 credits.

Planning for and improving the quality of US metropolitan markets and food systems. Topics include public markets, community food security, urban agriculture, and the public health impact of food systems.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2015

**URB R PL/CIV ENGR/ENVIR ST 717 – WATER RESOURCES MANAGEMENT PRACTICUM PLANNING SEMINAR I**

1 credit.

This is the first of two seminars used for planning the activities of the Summer Session Water Resources Management Practicum (ENVIR ST/ CIV ENGR/URB R PL 719).

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**URB R PL/CIV ENGR/ENVIR ST 718 – WATER RESOURCES MANAGEMENT PRACTICUM PLANNING SEMINAR II**

2 credits.

This seminar is used for planning the field work, analysis and reporting of the Summer Session Water Resources Management Practicum (ENVIR ST/CIV ENGR/URB R PL 719).

**Requisites:** Adv Grad standing or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**URB R PL/CIV ENGR/ENVIR ST 719 – WATER RESOURCES MANAGEMENT SUMMER PRACTICUM**

4 credits.

Interdisciplinary team of students and staff working with agency personnel, citizen groups, and/or private sector representatives on the analysis of a contemporary, problem-oriented water resource issue. Physical, biological, economic and social aspects of the issue analyzed. Comprehensive written report results, practicum's findings and management recommendations.

**Requisites:** Envir St/Civ Engr/Urb R PI 718 or consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Summer 2017

**URB R PL/REAL EST 720 – URBAN ECONOMICS**

3 credits.

Analysis of spatial relationships in the urban economy, including urban land, labor and housing markets; urban transport; city governance and finance; and regional models. Historical and applied focus.

Interdisciplinary approach emphasizing economics, geography, and planning.

**Requisites:** ECON 301 or equiv or cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**URB R PL/SOC WORK 721 – METHODS OF PLANNING ANALYSIS**

3 credits.

Research methods and statistics used in analyzing planning problems: conceptualization, design, and implementation of planning research; statistical methods for analyzing data including review of inferential statistics, analysis of variance, correlation, and multiple regression; use of computer; review of sources of planning data.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**URB R PL 731 – INTRODUCTION TO REGIONAL PLANNING**

3 credits.

Broad coverage of regional planning—basic concepts, history, influences of the political, economic, and social environment, techniques of analysis and substantive tasks and problems in preparing regional plans.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**URB R PL/ECON/PUB AFFR 734 – REGIONAL ECONOMIC PROBLEM ANALYSIS**

3 credits.

Examination of major theories of regional economic development, with special emphasis upon the evolution and amelioration of regional economic problems. Selected techniques of regional analysis, including economic base multipliers, input/output models, and shift-share analysis are used in the context of setting regional development goals.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2011



**URB R PL 741 – INTRODUCTION TO PLANNING**

3 credits.

Evolution of contemporary urban and regional planning thought. Major conceptual dilemmas in theory and practice. Emerging trends in planning, e.g., forecasting and futurism. Stdts in Urb R Pl only

**Requisites:** Grad st.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**URB R PL/GEOG/POLI SCI 742 – INTERNATIONAL DEVELOPMENT PLANNING THEORY**

3 credits.

Provides students with a historical and theoretical foundation for critical thinking about international development planning.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2008**URB R PL 751 – INTRODUCTION TO FINANCIAL PLANNING**

3 credits.

State and local financial planning with emphasis on the functional importance of expenditure; special problems in financing city and metropolitan governments; intergovernmental fiscal relations and the use of various budgetary techniques as integral parts of the planning process.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**URB R PL 761 – CENTRAL CITY PLANNING: ISSUES AND APPROACHES**

3 credits.

Social, economic, environmental, and fiscal trends affecting larger, older American cities, critical policy issues confronting central city decision-makers, and major programmatic responses to these issues; the role of planning in response to these trends and issues.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2014**URB R PL 781 – PLANNING THOUGHT AND PRACTICE**

3 credits.

Intensive analysis of selected planning cases highlighting important issues that planners deal with in practice. The case studies are prefaced by sessions which places them in the broader framework of planning history, decision making process models and planner role models. A second section deals with subnational planning and regional development issues in developing countries.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**URB R PL/ENVIR ST/PUB AFFR 809 – INTRODUCTION TO ENERGY ANALYSIS AND POLICY**

3 credits.

Interdisciplinary seminar for the Energy Analysis and Policy Curriculum. Strategy and policy problems in energy policy, both national and international.

**Requisites:** Grad st admission to Energy Anal and Policy curric or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**URB R PL/ENVIR ST/PUB AFFR 810 – ENERGY ANALYSIS SEMINAR**

1-3 credits.

Interdisciplinary seminar for the Energy Analysis and Policy Curriculum. Quantitative energy content and energy flows as an aid to problem analysis and policy formulation.

**Requisites:** Grad st admission to Energy Anal and Policy Curric or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017**URB R PL 812 – STRATEGIES FOR PLANNING EFFECTIVENESS**

3 credits.

Methods by which planning effectiveness can be increased, and constraints imposed on planning effectiveness can be overcome. Theoretical models for greater planning effectiveness, strategies for increasing the influence of planning agencies, implications of effective planning for education, values, ethics, and techniques. Experienced planners discuss effectiveness techniques.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014

**URB R PL 814 – ENVIRONMENTAL AND ALTERNATIVE DISPUTE RESOLUTION IN PLANNING**

3 credits.

Principles, methods, and techniques of alternative dispute resolution; characteristics and dynamics of environmental and public policy conflicts; environmental and public policy dispute resolution theory; dispute systems design; applications to planning practice.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**URB R PL/ENVR ST 821 – RESOURCES POLICY ISSUES: REGIONAL AND NATIONAL**

2-3 credits.

Resource policy issues frequently faced by local and state governments and the federal government. Emphasis: (1) techniques for analysis of resource issues; (2) methods of collating knowledge from natural and social science disciplines which can make meaningful contributions to resolution of resource issues; (3) identification and analysis of strategic points of decision making in the legislative and executive branches of government; and (4) the application of planning techniques for accomplishing resource goals.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2015**URB R PL/LAW 830 – LAND USE CONTROLS**

3 credits.

Limitations imposed upon the use of privately owned land by the court-made law of nuisance, by private covenant, and by public action; master plan, official map, subdivision regulation, zoning, and urban redevelopment.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**URB R PL 833 – PLANNING AND THE LEGAL SYSTEM**

3 credits.

An examination for students of planning of how the legal system influences community planning. Overview of the institutional framework for planning and the legal authority for tools used to create healthy and sustainable communities.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**URB R PL/CIV ENGR 839 – LAND USE AND COMMUNICATION SYSTEMS PLANNING**

3 credits.

Application of systems analysis to the planning of land use and transportation systems; system modeling; environmental impacts; value measurement; decision-making strategies.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2013**URB R PL 841 – URBAN FUNCTIONS, SPATIAL ORGANIZATION AND ENVIRONMENTAL FORM**

2-3 credits.

Influence of social, economic, and political systems, technological innovations, and architectural concepts on the spatial organization and environmental form of cities and urban areas; the adaptability of urban physical structure to developmental change; planned, conceptual organization and form versus unplanned and ecological organization and form.

**Requisites:** Urb R PL 741 912 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**URB R PL/ENVR ST 843 – LAND USE POLICY AND PLANNING**

3 credits.

Critical evaluation and analysis of land use policies and programs in relation to comprehensive planning and growth management issues in the U.S. The role of legislative and judicial processes and emerging public land use social values and philosophies in the development, regulation, and effectuation of innovative land use policies. Alternative land policy and growth guidance systems of select European countries.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**URB R PL 844 – HOUSING AND PUBLIC POLICY**

3 credits.

Issues and methodological problems encountered in the production, financial, and consumption sectors of housing program design; comparisons with European and Third World country housing and public policy programs.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017

**URB R PL/ECON 845 – ADVANCED TOPICS IN PUBLIC FINANCE**

1-4 credits.

Advanced public finance problems and literature, research; subject changes each semester; may be repeated. Modules.

**Requisites:** ECON 713 and 714**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2012**URB R PL/ENVIR ST 865 – WATER RESOURCES INSTITUTIONS AND POLICIES**

3 credits.

Governmental processes and policies for water resources management: major substantive problems and issues; political processes of decision making; problems of governmental organization and intergovernmental arrangements.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**URB R PL/POLI SCI/PUB AFFR 874 – POLICY-MAKING PROCESS**

3 credits.

An intensive study of policy-making processes involved in the formulation of public policies.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**URB R PL/ELPA 875 – THEORY AND PRACTICE OF EDUCATIONAL PLANNING**

3 credits.

Theory, research and practice in advanced program planning and evaluation involving elementary, secondary and higher and post-secondary education. Grad st for other fields

**Requisites:** ELPA 702 or cons inst for ELPA majors.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2017**URB R PL/POLI SCI/PUB AFFR 878 – PUBLIC MANAGEMENT**

3 credits.

Role of administration in American government; problems of organization, bureaucracy and control; public policy as the output of the administrative process.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2016**URB R PL/POLI SCI/PUB AFFR 890 – FEDERAL BUDGET AND TAX POLICY AND ADMINISTRATION**

3 credits.

Focuses on national budget and tax policy and administration, and the parallel processes at the state and local levels. Included are discussions of: decision-making theories; budget and tax policy; and analysis of normative and empirical criteria and analytical techniques for assessing alternative policy proposals.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2016**URB R PL 912 – PLANNING WORKSHOP**

3 credits.

Selected problems in planning to emphasize the interdisciplinary character of planning practice and to give opportunity to apply socioeconomic analysis, physical planning, and implementation techniques.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**URB R PL/ENVIR ST 917 – PUBLIC PARTICIPATION FOR PLANNING AND POLICY MAKING**

3 credits.

Examines public participation for planning and policymaking in both urban and natural environments; considers different types of participation from agency consultation to negotiation; designing, conducting, and evaluating citizen participation are major features.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**URB R PL/LAND ARC 920 – REGIONAL DESIGN WORKSHOP**

2-3 credits.

Development and application of a systematic approach to analysis and design at macro- and micro-scales within a regional context.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2012**URB R PL/ENVIR ST 923 – SEMINAR-LAND PROBLEMS: INSTITUTIONAL DEVELOPMENT**

2-3 credits.

Land tenure and utilization research and policy problems.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2017

**URB R PL/SOC 924 – SEMINAR-POLITICAL SOCIOLOGY**

3 credits.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**URB R PL 932 – SEMINAR-RESEARCH REVIEW AND CRITICISM**

1-3 credits.

Group consideration of thesis or equivalent projects during their preparation; individual reports on successive stages of work.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**URB R PL 945 – SEMINAR IN LAND USE AND COMMUNITY DEVELOPMENT ISSUES**

3 credits.

The social, economic, and political setting of urban blight and the current measures, including urban renewal and model cities programs, to cope with the condition. Attention to social change, concept of neighborhood, and cross-cultural perspectives to renewal and community development.

**Requisites:** Urb R Pl 844 or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**URB R PL/DS/F&W ECOL 955 – PRACTICAL RESEARCH DESIGN AND METHODS OF EMPIRICAL INQUIRY**

3 credits.

Provides a practical introduction to basic concepts of research question formulation, research designs and alternative methods of inquiry, implications for internal validity of the research and generalizability of the findings, operational definitions and measurement validity, reliability, utility and precision.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2014**URB R PL/POLI SCI 969 – SEMINAR-TRENDS AND ISSUES IN PUBLIC PLANNING**

3 credits.

Critical review of recent and current thought on the nature and role of planning in governmental and quasi-governmental agencies with particular attention to the adverse critics of planning and the issues they raise about the policy formulation process in public affairs.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2014**URB R PL/REAL EST 978 – SEMINAR-URBAN LAND ECONOMICS PHD**

2 credits.

Continuation of Urb R Pl/Real Est 977. PhD or 2nd yr masters candidates

**Requisites:** Two sems of Grad work.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2010**URB R PL/HISTORY/SOC 979 – SEMINAR IN URBAN HISTORY**

3 credits.

Causes and consequences of urbanization, stressing social and economic aspects of major population movements, with particular attention to the United States.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2015**URB R PL 990 – RESEARCH AND THESIS**

1-5 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**URB R PL 999 – INDEPENDENT WORK**

1-3 credits.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

## ZOOLOGY (ZOOLOGY)

**ZOOLOGY/BIOLOGY 101 – ANIMAL BIOLOGY**

3 credits.

General biological principles. Topics include: evolution, ecology, animal behavior, cell structure and function, genetics and molecular genetics and the physiology of a variety of organ systems emphasizing function in humans.

**Requisites:** Not recommended for students with credit already in Zoology/Biology/BOTANY/BIOLOGY/ZOOLOGY 151 or 152**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ZOOLOGY/BIOLOGY 102 – ANIMAL BIOLOGY LABORATORY**

2 credits.

General concepts of animal biology at an introductory level. The general body plans and strategies used to accomplish the basic tasks of staying alive of 9 major animal groups are studied using preserved and live animals. The diversity within each group of animals is studied by integrating the body plans with the lifestyle and ecology of the animals. The evolutionary relationships between the animals is a major part of the course. Dissections of earthworm, freshwater mussel, squid, sea star, and rat also aid the study of these general principles.

**Requisites:** Not recommended for students with credit already in Zoology/Biology/BOTANY/BIOLOGY/ZOOLOGY 151/152

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ZOOLOGY/BIOLOGY/BOTANY 151 – INTRODUCTORY BIOLOGY**

5 credits.

First semester of a two semester course designed for majors in biological sciences. Topics include: cell structure and function, cellular metabolism (enzymes, respiration, photosynthesis), information flow (DNA, RNA, protein), principles of genetics and selected topics in Animal Physiology. HS chem or concurrent registration in college chemistry strongly advised.

**Requisites:** Not recommended for students with credit already in Zoo/Bio 101, 102 or Botany/Bio 130

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ZOOLOGY/BIOLOGY/BOTANY 152 – INTRODUCTORY BIOLOGY**

5 credits.

Second semester of a two semester course designed for majors in biological sciences. Continuation of 151. Topics include: selected topics in plant physiology, a survey of the five major kingdoms of organisms, speciation and evolutionary theory, and ecology at multiple levels of the biological hierarchy. Not recommended for students with credit already in Zoology/BIOLOGY/ZOOLOGY 101,102 or Botany/BIOLOGY/BOTANY 130

**Requisites:** Biology/Botany/ZOOLOGY/BIOLOGY/BOTANY 151.

**Course Designation:** Gen Ed - Communication Part B

Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ZOOLOGY 153 – INTRODUCTORY BIOLOGY**

3 credits.

One-semester course designed for engineering majors including chemical and biological engineering. Meets with Zoology/Biology/BOTANY/BIOLOGY/ZOOLOGY 151. Engineering students who need a biology course with a lab component should enroll in Zoology/biology/BOTANY/BIOLOGY/ZOOLOGY 151. Topics include: cell structure and function, cellular metabolism (enzymes, respiration, photosynthesis), information flow (DNA, RNA, protein), principles of genetics, and selected topics in Animal Physiology. Concurrent registration in college chemistry strongly advised. Not recommended for students with credit already in Zoo/Bio 101, 102 or Botany/Bio 130.

**Requisites:** Declared in an Engineering program

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ZOOLOGY 199 – DIRECTED STUDY**

1-3 credits.

Recommended for Fr and So.

**Requisites:** Consent of instructor

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ZOOLOGY/BOTANY/ENVIR ST 260 – INTRODUCTORY ECOLOGY**

3 credits.

For nonbiology students: the relationships of organisms and the environment. Population dynamics and community organization, human-environment relationships, action programs. Does not count toward Botany or Zoology major

**Requisites:** Open to Freshmen.

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ZOOLOGY 299 – DIRECTED STUDIES IN ZOOLOGY**

1-3 credits.

Intermediate level directed study/independent research. The purpose of this course to introduce undergraduate students to research questions and, facilitate their learning in the field of biology by providing them with guidance and mentorship in a research environment.

**Requisites:** Consent of instructor

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017



**ZOOLOGY 300 – INVERTEBRATE BIOLOGY AND EVOLUTION**

3 credits.

Provides an introduction to invertebrate diversity and biology, with emphasis on anatomy, development, and systematic relationships of the main animal phyla. Phyla are discussed in the context of major themes in animal evolution, such as the origin of tissue layers, the diversity of feeding mechanisms, the evolution of terrestrialization, patterns of diversification through time, and the conservation of transcriptional circuitry. The aim of this course is to understand animal diversity from a phylogenetic and developmental perspective.

**Requisites:** BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102; or BIOLOGY/BOTANY/ZOOLOGY 151 and 152; or BIOCORE 381

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ZOOLOGY 301 – INVERTEBRATE BIOLOGY AND EVOLUTION LAB**

2 credits.

Provides an introduction to invertebrate diversity and biology, with emphasis on anatomy, development, and systematic relationships of the main animal phyla, in parallel with the Invertebrate Biology and Evolution lecture course. Phyla are discussed in the context of major themes in animal evolution, such as the origin of tissue layers, the diversity of feeding mechanisms, the evolution of terrestrialization, patterns of diversification through time, and the conservation of transcriptional circuitry. The aim of this course is to understand animal diversity from a phylogenetic and developmental perspective.

**Requisites:** Concurrent enrollment in ZOOLOGY 300

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ZOOLOGY/ENTOM 302 – INTRODUCTION TO ENTOMOLOGY**

4 credits.

Principles including morphology and classification; a general collection of insects required of each student.

**Requisites:** An elem course in zoology

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ZOOLOGY 303 – AQUATIC INVERTEBRATE BIOLOGY**

3 credits.

This course focuses on the form, function, development, basic physiology and ecology of the freshwater and marine invertebrates in the context of their environment. As a lecture and lab combination students will get a chance to study live invertebrate specimens, their habitat selection, adaptation and diversity.

**Requisites:** ZOOLOGY/BIOLOGY 101 and ZOOLOGY/BIOLOGY 102 OR BIOLOGY/BOTANY/ZOOLOGY 151 and/or BIOLOGY/BOTANY/ZOOLOGY 152

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Summer 2016

**ZOOLOGY/ENVIR ST 315 – LIMNOLOGY-CONSERVATION OF AQUATIC RESOURCES**

2 credits.

General limnology. Physical, chemical and biological characteristics and processes of lakes. Environmental problems and rehabilitation of lakes.

**Requisites:** Intro course in biol; intro course in chem recommended

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ZOOLOGY 316 – LABORATORY FOR LIMNOLOGY-CONSERVATION OF AQUATIC RESOURCES**

2-3 credits.

Biological, physical, and chemical characteristics and their interrelationships in Wisconsin lakes and streams.

**Requisites:** ENVIR ST/ZOOLOGY/ENVIR ST 315 or concurrent enrollment

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ZOOLOGY/F&W ECOL 335 – HUMAN/ANIMAL RELATIONSHIPS: BIOLOGICAL AND PHILOSOPHICAL ISSUES**

3 credits.

An interdisciplinary approach to our complex and often contradictory relationships with non-human animals, including information about the nature, needs and behavior of human and non-human animals in relation to our personal and professional interactions with them.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2015



**ZOOLOGY/ENTOM/M M & I/PATH-BIO 350 – PARASITOLOGY**

3 credits.

The biology of water-borne, food-borne, soil-borne and vector-borne parasites of animals including humans. Parasites are explored in the context of transmission, associated disease, diagnosis and treatment options, and environmental, cultural and socioeconomic drivers of disease epidemiology.

**Requisites:** BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102, or BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 152 or ZOOLOGY 153, or BIOCORE 381

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ZOOLOGY/M M & I/PATH-BIO 351 – PARASITOLOGY LABORATORY**

2 credits.

Optional laboratory component of Zoology/Med Micro/AHABS 350. Emphasis on experiments involving live animal parasites, including: trematodes, tapeworms, gapeworms, hookworm, ascarids, trichina, filaria, trypanosomes, coccidia, and malaria.

**Requisites:** cons reg in Zoo/MMI/AHABS 350

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2011**ZOOLOGY/ENVIR ST/F&W ECOL 360 – EXTINCTION OF SPECIES**

3 credits.

A comprehensive treatment of the ecology, causes, and consequences of species extinction. Ecology and problems of individual species, habitat alteration and degradation, socio-economic pressures and conservation techniques and strategies. An intro biology course strongly recommended

**Requisites:** So st.

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ZOOLOGY/ENTOM 371 – MEDICAL ENTOMOLOGY**

3 credits.

Arthropods of medical and veterinary importance, how they affect their hosts and transmit diseases.

**Requisites:** Intro course in zool or vet sci

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ZOOLOGY 400 – TOPICS IN BIOLOGY**

1-3 credits.

Subject matter, credits and prerequisites vary.

**Requisites:** Varies

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ZOOLOGY 405 – INTRODUCTION TO MUSEUM STUDIES IN THE NATURAL SCIENCES**

2-3 credits.

Provides an overview of natural history museums, including history, field collecting, specimen preparation, collection preservation, ethics, education and employment opportunities. At the same time, it introduces students to the natural science museums and library collections located on the UW campus.

**Requisites:** Open to Jr, Sr, Grads, Adv special stdts

**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ZOOLOGY/ANTHRO/BOTANY 410 – EVOLUTIONARY BIOLOGY**

3 credits.

Evolutionary biology, emphasizing how modern scientists study evolution. Topics include: nature and mechanisms of microevolution, macroevolution, adaptation, speciation; systematics and taxonomy; quantitative genetics and measurement of natural selection; phylogenetic analyses of behavior, physiology, morphology, biochemistry; current controversies in evolution.

**Requisites:** An elem course in zool or botany So st; Genetics/Botany/Zool 160 or 466 recommended

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017

**ZOOLOGY 425 – BEHAVIORAL ECOLOGY**

3 credits.

Designed to explore how organisms make decisions and how these decisions affect their survival. These decisions are key aspects of an organism's life, e.g. foraging behavior, mating behavior, anti-predator behavior, and habitat selection. The course approaches these questions with the perspective that understanding the proximal and ultimate basis of behavior requires understanding the ecological and evolutionary context of behavior.

**Requisites:** Enrollment limited to students that have taken one of the following courses: Biology/Botany/ZOOLOGY/BIOLOGY/BOTANY 151 AND 152; or Biology/ZOOLOGY/BIOLOGY 101 AND BOTANY/BIOLOGY 130; or Biology/Biocore 301 AND 302.

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**ZOOLOGY 430 – COMPARATIVE ANATOMY OF VERTEBRATES**

5 credits.

Basic vertebrate anatomical systems and a consideration of variations, using functional embryological and evolutionary approaches. Lab dissection and study of representative vertebrate material. Two evening practical exams.

**Requisites:** Intro crse in zool So st

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ZOOLOGY/BOTANY 450 – MIDWESTERN ECOLOGICAL ISSUES: A CASE STUDY APPROACH**

2 credits.

This web course explores how ecological principles can be used to address contemporary environmental issues such as water quality, invasive species, and population growth. Emphasis on midwestern issues, practical approaches, the role of history, and geographic context.

**Requisites:** Intro biology crse, interest in solving problems

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2017**ZOOLOGY/BOTANY 459 – ECOLOGICAL TECHNIQUES FOR FIELD MONITORING**

1-2 credits.

Field techniques to inventory and census plant and animal species and ecological processes and how to assemble these into useful databases.

Emphasis on 'keystone' and invading exotic species that strongly affect community dynamics. Aimed at science teachers interested in participating in a monitoring network. g. BOTANY/ZOOLOGY 450, 460), interest in monitoring, cons inst

**Requisites:** A crse in ecology (e.

**Course Designation:** Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Summer 2006**ZOOLOGY/BOTANY/F&W ECOL 460 – GENERAL ECOLOGY**

4 credits.

Ecology of individual organisms, populations, communities, ecosystems, landscapes, and the biosphere. The interaction of organisms with each other and their physical environment. These relationships are studied, often in quantitative terms, in both field and laboratory settings; lecture and lab.

**Requisites:** Intro course in botany zoology, or Bot/Zoo 151-152, or Biocore 301 or 333; for biol sci majors only

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ZOOLOGY 470 – INTRODUCTION TO ANIMAL DEVELOPMENT**

3 credits.

This course introduces students to the major features and mechanisms of early embryonic development in animals, including (1) the major stages of early development, (2) how form arises in the embryo (morphogenesis), (3) how differences arise between cells in the embryo, and (4) how specific genes control these processes.

**Requisites:** Zool 101 or Zool 151/152

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017

**ZOOLOGY/BOTANY/ENTOM 473 – PLANT-INSECT INTERACTIONS**

3 credits.

Multiple ways in which arthropods exploit plants, plant traits that deter or augment insects, environmental mediation of these interactions, effects on population dynamics, community ecology and co-evolution, and implications to natural resource management, environmental quality, and sustainable development.

**Requisites:** One of the following: Bot/For/Zoo 460, Ent/PI Path/For 500, PI Path/Bot 505, Forestry 550, or ENTOM 342

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ZOOLOGY 500 – UNDERGRADUATE NEUROBIOLOGY SEMINAR**

1 credit.

Neurobiology seminar for undergraduates. A faculty lead lecture/discussion about a wide range of topics in neurobiology research from molecular neurobiology to integrative systems. Topics discussed by invited UW-Madison faculty researchers in any given semester can include: ion channels and synaptic plasticity, neural development, sensory and cognitive physiology, biological basis of behavioral disorders and cognitive decline.

**Requisites:** Declared in Neurobiology or Biology with the neurobiology option and ZOOLOGY/PSYCH/NTP 523 or concurrent enrollment

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ZOOLOGY 504 – MODELING ANIMAL LANDSCAPES**

3-5 credits.

This course uses computer and GIS-based modeling to explore how climate, topography, vegetation type, and key animal properties all interact to specify from first principles the energetics and activity constraints of animals on any landscape. It links individual, population and community variables at landscape scales.

**Requisites:** Jr st

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Honors - Accelerated Honors (!)

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ZOOLOGY/ENVIR ST 510 – ECOLOGY OF FISHES**

3 credits.

Interactions of fishes with their physical, chemical, and biotic environment; physiological ecology, community ecology and fisheries sciences. Lake Mendota perch fishery and Shedd Aquarium field trips.

**Requisites:** 1 yr biol chem Jr st

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ZOOLOGY/ENVIR ST 511 – ECOLOGY OF FISHES LAB**

2 credits.

Anatomy and taxonomy of Wisconsin fishes and projects in fish ecology.

**Requisites:** Zoo 511 - needs Zoo 510 or concurrent enrollment

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ZOOLOGY/AN SCI/F&W ECOL 520 – ORNITHOLOGY**

3 credits.

Introduction to bird biology, ecology, and behavior. Topics include the evolutionary origin of birds and flight, anatomy and physiology, functional morphology, migration, communication, reproductive strategies, ecological adaptations and roles, and biogeographical patterns.

**Requisites:** BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102, BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151 and 152 or BIOCORE 381 and 382

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ZOOLOGY/AN SCI/F&W ECOL 521 – BIRDS OF SOUTHERN WISCONSIN**

3 credits.

Outdoor and indoor labs/lectures emphasizing identification of southern Wisconsin birds by sight and vocalization. Two required Saturday field trips in Southern Wisconsin.

**Requisites:** BIOLOGY/ZOOLOGY/BIOLOGY 101 and 102, BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151 and 152 or BIOCORE 381 and 382

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ZOOLOGY/PSYCH 523 – NEUROBIOLOGY**

3 credits.

Basic mechanisms in cellular neurophysiology: electrophysiology and chemistry of nerve signals, mechanisms in integration, simple nervous pathways and their behavioral correlates. We highly recommend entering students have a strong background in the principles of basic electricity (charge, voltage, current, resistance, capacitance), as provided by PHYSICS 104, 202, 208, or a strong high school physics program.

**Requisites:** (ZOOLOGY/BIOLOGY/BOTANY/BIOLOGY/ZOOLOGY 151 or ZOOLOGY/BIOLOGY 101 or BIOCORE 485) and (CHEM 103/104 or CHEM 109)

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ZOOLOGY/NTP/PHYSIOL/PSYCH 524 – NEUROBIOLOGY II: AN INTRODUCTION TO THE BRAIN AND BEHAVIOR**

3 credits.

An introduction to studies of the human nervous system covering neuroanatomy of the brain, neuronal coding, sensory and motor systems, biological rhythms, arousal, attention, physiological regulation, reward, aversion, learning and memory.

**Requisites:** Zool 523, equiv crse in physiol, or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ZOOLOGY 525 – TROPICAL HERPETOLOGY**

1 credit.

This course introduces students to perhaps the least known but most threatened groups of tropical vertebrates, the amphibians and reptiles ("herps"). The course consists of a series of eight two hours lectures that introduce students to the range of tropical habitats and the amphibians and reptiles to be found there, using the current extinction crisis among these animals as an underlying theme.

**Requisites:** ZOOLOGY/BIOLOGY 101 and ZOOLOGY/BIOLOGY 102 or BIOLOGY/BOTANY/ZOOLOGY 152 or equivalent

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ZOOLOGY/ENTOM 530 – INSECT BEHAVIOR**

3 credits.

Comparative behavior of insects. Function and evolution.

**Requisites:** ENTOM/ZOOLOGY 302 or equiv; Zool 330 or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**ZOOLOGY 535 – ECOSYSTEM ANALYSIS**

3 credits.

Introduction to current quantitative approaches for analyzing ecosystems. Includes hand-on experience with ecosystem modeling and parameter estimation.

**Requisites:** 1 yr calculus a majors course in ecology; or Grad st

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2010

**ZOOLOGY/ENTOM 540 – THEORETICAL ECOLOGY**

3 credits.

Introduction to theoretical ecology, including hands-on experience in computer modeling. For students with ecology background; does not require a strong math background. 3-credit option requires project and consent of instructor.

**Requisites:** 1 year calculus, Zoo/Bot 260, Zoo/Bot/For 460 or equiv, Jr st

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2016

**ZOOLOGY/GEOSCI 541 – PALEOBIOLOGY**

3 credits.

The evolutionary process as interpreted from the fossil record. Topics include: the study of form; tempo and mode of evolution; levels and mechanisms of evolutionary change; extinction in the fossil record; trends and patterns in the history of life; macroevolution.

**Requisites:** GEOSCI 304 or 540 or course in introductory biology

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ZOOLOGY/GEOSCI 542 – INVERTEBRATE PALEONTOLOGY**

3 credits.

The evolutionary history, morphology, and ecology of fossil invertebrates. Labs emphasize fossil identification and recognition of basic morphological features.

**Requisites:** GEOSCI 107, 110, 204, or a course in introductory biology

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2014

**ZOOLOGY/PSYCH 550 – ANIMAL COMMUNICATION AND THE ORIGINS OF LANGUAGE**

3 credits.

Signals, contexts, and mechanism of social communication in animals. Speech and non-verbal communication in human beings and possible arguments for the evolution of speech and language.

**Requisites:** PSYCH 449 or 450 or Zoology 531 or 532**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2012**ZOOLOGY 555 – LABORATORY IN DEVELOPMENTAL BIOLOGY**

3 credits.

Developmental anatomy and laboratory manipulations of representative animal embryos used extensively for analysis of developmental phenomena (sea urchins, amphibia, annelids, molluscs, ascidians, insects, chicks, fish, mice).

**Requisites:** ZOOLOGY 470 or PSYCH/ZOOLOGY/PSYCH 523 or ZOOLOGY 625 or BIOCORE 587 (or NTP 523 prior to Fall 2017)**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ZOOLOGY/GENETICS/MD GENET 562 – HUMAN CYTOGENETICS**

2 credits.

Fundamental principles of cytogenetics and special problems of human cytogenetics for biology and medical students.

**Requisites:** GENETICS 466, 468, BIOCORE 587, or BMOLCHEM/MD GENET 721**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ZOOLOGY/F&W ECOL/LAND ARC 565 – PRINCIPLES OF LANDSCAPE ECOLOGY**

2 credits.

Landscape ecology emphasizes the importance of spatial patterns at broad scales. Concepts and applications are emphasized, especially for seniors and graduate students in applied natural resource fields. The course is also a prerequisite for Zoology/Forest Ecology 665, Advanced Landscape Ecology. Lecture format with discussion.

**Requisites:** Botany/Zoology/Forest 460, or Forest 550, a crse in stats, cons inst**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017**ZOOLOGY 570 – CELL BIOLOGY**

3 credits.

Comprehensive course on modern aspects of cell biology.

**Requisites:** One yr college biol, one yr chem**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ZOOLOGY 603 – ENDOCRINOLOGY**

3-4 credits.

An introduction to the role that hormones play in a variety of physiological processes and behaviors from a molecular to a systems level. Topics include hormonal involvement in growth, development, homeostasis, reproduction, and behavior, with an emphasis on vertebrate systems.

**Requisites:** Background in biochem cell-molecular biol recommended, but not required**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2016**ZOOLOGY 604 – COMPUTER-BASED GENE AND DISEASE/DISORDER RESEARCH LAB**

2 credits.

In recent years, a large number of open access biological and biomedical databases have become available for on-line, computer based research. Among these databases are the National Center for Biotechnology Information, Allen Brain Atlas, NIH DAVID, Genemania, ToppClusterPhenopedia, GeneNetwork, GWAS Central, and Broad Institute's MSIGDB. Within these and other sites is a wealth of information regarding genes, gene expression, gene pathways, behavioral characteristics, and disorders or diseases, such as autism, arthritis, bipolar disorder, and schizophrenia. Learning to navigate the various sites to take advantage of the information and push scientific discovery forward is a valuable skill to develop for any student interested in a career in science or medicine. In the early part of this laboratory course, students will be guided through a range of databases and shown how to extract information to develop new ideas. A key part of the course is that each student will pick a disease or disorder of interest (e.g., autism, arthritis, epilepsy, schizophrenia) and use multiple databases to develop new ideas on which genes may be playing important, but previously underappreciated or unknown roles.

**Requisites:** BIOLOGY/ZOOLOGY/BIOLOGY 101 OR BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151 OR BIOCORE 381**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Spring 2017



**ZOOLOGY 611 – COMPARATIVE AND EVOLUTIONARY PHYSIOLOGY**

3 credits.

Course examines general physiological principles by comparing taxa from diverse evolutionary histories and ecological adaptations. Examples include adaptation to environments differing in salinity, temperature, altitude, pressure, or pollution, and examines how nervous and endocrine systems evolved to support the adaptations.

**Requisites:** Elem crse in Botany or Zoology

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**ZOOLOGY 612 – COMPARATIVE PHYSIOLOGY LABORATORY**

2 credits.

Recommended for majors.

**Requisites:** Zoo 612 - needs Zoo 611 or concurrent enrollment

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2015

**ZOOLOGY/NEURODPT/NTP/PHYSIOL 616 – LAB COURSE IN NEUROBIOLOGY AND BEHAVIOR**

4 credits.

Students will do three independent experimental modules exploring neurophysiology and behavior, each taking 4-5 weeks. Students will work in groups of 2 or 3 and will learn techniques and then develop their own short investigations into each of three separate areas of neurobiology. There will be continual interaction between students and faculty.

**Requisites:** ZOOLOGY/NTP/PSYCH/ZOOLOGY 523 and NTP/PHYSIO / PSYCH/ZOOLOGY/NTP/PHYSIOL/PSYCH 524 or NTP/PHMCO-M/PHYSIOL/NTP/PHMCO-M 610 and ANATOMY/NTP/PHMCO-M/PHYSIOL/PSYCH/ANATOMY/NTP/PHMCO-M/PHYSIOL 611

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ZOOLOGY/ANTHRO/NTP/PSYCH 619 – BIOLOGY OF MIND**

3 credits.

Origins and structures of mind, brain, and consciousness. Transitions from early mammalian through primate to hominid intelligence. Genetics and plasticity in brain development. Modern studies of human brain mechanisms and consciousness.

**Requisites:** Jr st; college level elem crse in biology or psych

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2012

**ZOOLOGY/NTP 620 – NEUROETHOLOGY SEMINAR**

2 credits.

A group discussion of primary literature articles relevant to the neural basis of behavior with a purpose to understand the neural basis of behavior in animals, to learn to read papers critically and improve discussion leading skills. Background in neuroscience strongly recommended

**Requisites:** Introductory biology.

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2012

**ZOOLOGY/ENTOM/GENETICS 624 – MOLECULAR ECOLOGY**

3 credits.

Basic principles of molecular ecology. Lecture topics include population genetics, molecular phylogenetics, rates and patterns of evolution, genome evolution, and molecular ecology.

**Requisites:** BOTANY/GENETICS/ZOOLOGY 466, GENETICS 467 or BIOCORE 383 or graduate student standing

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ZOOLOGY 625 – DEVELOPMENT OF THE NERVOUS SYSTEM**

2 credits.

Survey of the principles guiding neuronal development. Course will cover descriptive and experimental analyses of developmental mechanisms underlying the formation of both vertebrate and invertebrate nervous systems.

**Requisites:** One intermed level crse in biol; background in development neurobiol recommended

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2017

**ZOOLOGY/BIOCHEM/PHMCO-M 630 – CELLULAR SIGNAL TRANSDUCTION MECHANISMS**

3 credits.

Lecture-discussion. Comprehensive coverage of human hormones, growth factors and other mediators; emphasis on hormone action and biosynthesis, cell biology of hormone-producing cells.

**Requisites:** Intro biochem (BIOCHEM 501 or 507 508) cell biology (Biocore 303 or Zool 570 or Path750) or cons inst

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017



**ZOOLOGY/BOTANY/GENETICS 645 – MODELING IN POPULATION GENETICS AND EVOLUTION**

3 credits.

Introduction to mathematical techniques and approaches for predicting evolutionary change within populations. Concentrates on classic population genetic models and results, including selection on one and several loci; mutation; non-random mating; drift. Evaluation based on periodic problem sets and independent projects.

**Requisites:** Intro evolution, intro genetics, calculus, or cons inst

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2010

**ZOOLOGY/BOTANY/ENVIR ST/F&W ECOL 651 – CONSERVATION BIOLOGY**

3 credits.

Application of ecological principles and human dimensions to the conservation of biological diversity. Topics: biodiversity science; conservation planning; population ecology; habitat loss, species exploitation, invasive species, pollution; human attitudes and activities as they affect the biosphere; approaches to monitoring interventions.

**Requisites:** An ecology crse (eg, Botany/ZOOLOGY/BOTANY/F&W ECOL 460)

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ZOOLOGY/F&W ECOL 660 – CLIMATE CHANGE ECOLOGY**

3 credits.

The evidence that the Earth's climate is changing at unprecedented rates is now overwhelming. Environmental tipping points are being crossed and many species are adapting or failing to adapt. Climate change poses a significant problem for conserving and managing wildlife and their habitats. In this class, students will be introduced to climate change and its ecological impacts through engaging class discussions, online climate exercises, and group projects aimed at developing climate change adaptation plans.

**Requisites:** Junior or Senior standing as a Forest Science or Wildlife Ecology major; graduate student standing; FW Ecol/Zoology/BOTANY/F&W ECOL/ZOOLOGY 460; or consent of instructor

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ZOOLOGY/BOTANY/F&W ECOL 672 – HISTORICAL ECOLOGY**

2 credits.

Historical Ecology is an area of ecology that considers the importance of past events for current ecosystems. Concepts and applications are emphasized. Multidisciplinary emphasis, for seniors and graduate students in biological sciences, social studies, and humanities. Discussion format.

**Requisites:** Graduate or senior standing and consent of instructor

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2016

**ZOOLOGY/NEURODPT/PSYCH 674 – BEHAVIORAL NEUROENDOCRINOLOGY SEMINAR**

2 credits.

Behavior results from a complex interplay among hormones, the brain, and environmental factors. Behaviors and their underlying neural substrates have evolved in response to specific environmental conditions, resulting in vast species diversity in behavioral and neuroendocrine solutions to environmental problems. This seminar is designed to explore the primary literature on the neuroendocrine underpinnings of behavior spanning from feeding to sex differences in complex social behaviors. A range of taxonomic groups will be discussed, including (but not limited to) mammals, birds, and fish. A background in neuroscience and/or endocrinology is strongly recommended.

**Requisites:** BIOLOGY/ZOOLOGY/BIOLOGY 101 or BIOLOGY/BOTANY/ZOOLOGY/BIOLOGY/BOTANY 151 or BIOCORE 383

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2017

**ZOOLOGY 677 – INTERNSHIP IN ECOLOGY**

2 credits.

A seminar course to provide support and structure for undergraduates interested in gaining hands-on experience working as a volunteer with local environmental, ecological or conservation groups.

**Requisites:** Recommended for Jr Sr; graded on a letter basis

**Course Designation:** L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2009

**ZOOLOGY 681 – SENIOR HONORS THESIS**

1-6 credits.

Independent research. Topic selected, if possible, before the close of the junior year.

**Requisites:** Senior standing

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ZOOLOGY 682 – SENIOR HONORS THESIS**

1-4 credits.

Independent research. Topic selected, if possible, before the close of the junior year.

**Requisites:** Senior standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No**Last Taught:** Fall 2017**ZOOLOGY 691 – SENIOR THESIS**

1-6 credits.

Independent research. Topic selected, if possible, before the close of the junior year.

**Requisites:** Senior standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ZOOLOGY 692 – SENIOR THESIS**

1-4 credits.

Independent research. Topic selected, if possible, before the close of the junior year.

**Requisites:** Senior standing**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2016**ZOOLOGY 698 – DIRECTED STUDY**

1-6 credits.

Selected research projects. Recommended for Jr and Sr.

**Requisites:** Consent of instructor**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ZOOLOGY 699 – DIRECTED STUDIES IN ZOOLOGY**

1-6 credits.

Selected research projects. Recommended for Jr and Sr.

**Requisites:** Recommended for Jr Sr; graded on a lettered basis; requires written cons inst**Course Designation:** Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ZOOLOGY/BOTANY 725 – ECOSYSTEM CONCEPTS**

3 credits.

Scope and objectives of ecosystem ecology; roles of theory, long-term studies, comparative studies, and large-scale experiments; scaling problems; ecosystem services and ecological economics; adaptive ecosystem assessment and management. Experience in modeling, programming, or stats

**Requisites:** Grad st.**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2017**ZOOLOGY/ATM OCN/ENVIR ST/GEOSCI 750 – PROBLEMS IN OCEANOGRAPHY**

3 credits.

Introduction to techniques used in the study of the biology, chemistry, geology, and physics of the marine environment.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**ZOOLOGY/ANATOMY/NTP 765 – DEVELOPMENTAL NEUROSCIENCE**

3 credits.

Analysis of neural development with emphasis on experimental approaches. Combination of lectures and discussions of primary literature. Topics include neural induction, patterning, mechanisms of axon guidance, neural crest cell migration and differentiation, cortical development, and synapse formation and elimination.

**Requisites:** Grad st in biol sci; undergrads with cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**ZOOLOGY 799 – INDEPENDENT STUDY**

1-6 credits.

Advanced zoology, project related; not covered in regular courses.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2011

**ZOOLOGY/BOTANY/ENTOM/GENETICS 820 – FOUNDATIONS OF EVOLUTION**

2 credits.

Through reading and analysis of the primary literature, this course will explore some of the most important themes and debates that have permeated evolutionary biology over the last 50 years. Students will read key papers related to each controversial topic, will debate the pros and cons of competing viewpoints, and will reflect on the relevance of the issues to contemporary evolutionary biology. Students will also write a paper that analyzes one topic in more detail. This course is intended for graduate students who plan to specialize in evolutionary biology, broadly construed.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ZOOLOGY/BOTANY/F&W ECOL 879 – ADVANCED LANDSCAPE ECOLOGY**

3 credits.

Landscape ecology emphasizes spatial patterning—its development and importance for ecological processes—and often focuses on large regions. Concepts, methods, and applications of landscape ecology will be learned through lectures, readings, exercises in quantitative approaches, and an independent project.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2016**ZOOLOGY/ATM OCN/BOTANY/CIV ENGR/ENVIR ST/GEOSCI 911 – LIMNOLOGY AND MARINE SCIENCE SEMINAR**

1 credit.

Sections in various fields of zoological research.

**Requisites:** Grad st in limnology marine sci grad prgm or cons inst**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ZOOLOGY/ENTOM/PSYCH 950 – INTERDISCIPLINARY SEMINAR IN ANIMAL BEHAVIOR**

1 credit.

Research methods in animal behavior studies in many disciplines.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2013**ZOOLOGY/AGRONOMY/ATM OCN/BOTANY/ENTOM/ENVIR ST/F&W ECOL/GEOG 953 – INTRODUCTION TO ECOLOGY RESEARCH AT UW-MADISON**

1-2 credits.

This seminar course will introduce new graduate students to the diversity of ecologists across the UW-Madison campus. Course meetings will include discussions of key topics in professional development, research presentations by faculty members, and discussions of assigned papers with senior graduate students.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2017**ZOOLOGY/AN SCI/OBS&GYN 954 – SEMINAR IN ENDOCRINOLOGY-REPRODUCTIVE PHYSIOLOGY**

1 credit.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ZOOLOGY 955 – SEMINAR-LIMNOLOGY**

1 credit.

Sections in various fields of zoological research.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ZOOLOGY 956 – SEMINAR-ECOLOGY**

1 credit.

Sections in various fields of zoological research.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017**ZOOLOGY 957 – SEMINAR-EVOLUTION**

1 credit.

Sections in various fields of zoological research.

**Requisites:** Graduate or professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2017

**ZOOLOGY 958 – SEMINAR-BIOPHYSICAL AND PHYSIOLOGICAL ECOLOGY**

1 credit.

Sections in various fields of zoological research.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2017

**ZOOLOGY 960 – SEMINAR IN CELLULAR BIOLOGY**

1 credit.

Sections in various fields of zoological research.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ZOOLOGY 962 – SEMINAR-ETHOLOGY**

1 credit.

Sections in various fields of zoological research.

**Requisites:** Grad st written cons inst

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

**ZOOLOGY/ATM OCN/BOTANY/ENVIR ST/F&W ECOL/GEOG/GEOSCI 980 – EARTH SYSTEM SCIENCE SEMINAR**

1 credit.

Topics in earth system science. Emphasis on the coupling between atmospheric, oceanic and land surface systems, involving physical geochemical and biological processes, and including interactions with human systems.

**Requisites:** Graduate or professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2016

**ZOOLOGY 990 – RESEARCH**

1-9 credits.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Fall 2017

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